

**STATUESQUE**

Philadelphia is home to more sculptures and murals than any other U.S. city, including the Love Statue shown here.

employers, the ACS Career Fair once again will provide opportunities for actual interviews (both on-site and on-line), one-on-one career assistance, and professional development workshops. The workshops require a separate registration and fee.

The exposition will feature more than 230 companies showcasing services, instruments, books, lab equipment, and much more in booths that number more than 350.

And if the expo and various symposia aren't enough to fill your time, be sure to check out the many landmarks Philadelphia is known for—a

local cheesesteak shop, the Liberty Bell, or Fairmont Park.—EMILY BONES

# 244TH ACS NATIONAL MEETING

PHILADELPHIA, Aug. 19–23

**THE CITY OF** Brotherly Love will host the 244th American Chemical Society National Meeting at the Pennsylvania Convention Center. Symposia supporting the meeting's multidisciplinary theme, "Materials for Health & Medicine," are organized by thematic program chair Xinqiao Jia, an associate professor of materials science and engineering at the University of Delaware.

ACS President Bassam Z. Shakhshiri will host 30 technical divisions and seven committees in original programming over 790 half-day oral sessions and 118 poster sessions that include Sci-Mix. More than 8,500 papers will be presented at the meeting.

In addition to supporting the meeting theme, Shakhshiri will continue to endorse his presidential agenda, "Advancing Chemistry & Communicating Chemistry."

**MEETING INFO ON THE WEB**  
[www.acs.org/philly2012](http://www.acs.org/philly2012)

On Monday, "The Work of the Innocence Project" will address how forensic science plays a tragic role in innocent people's convictions and in some cases death, and on Tuesday, "Communicating Controversial Science" will honor Rudy M. Baum, who is retiring from C&EN as editor-in-chief.

The International Lounge is a new feature that will serve to host international guests. When you're in the convention center, drop by and meet ACS members from outside the U.S.

As usual, many education-focused programs for high school teachers, undergraduate and graduate students, postdocs, and chemical professionals who want to expand options and manage their careers are being offered. On Sunday night, a "Double Feature Feature" will take place as part of the education program, featuring two science-themed films.

Throughout the meeting, a range of professional development courses are available; ACS Short Courses have a separate registration and fee. And for job seekers and

REGISTRATION CATEGORY	FEE—STANDARD AFTER JULY 24
<b>MEMBERS</b>	
ACS member or society affiliate	\$435
Postdoctoral member	435
Emeritus or retired member	220
50-year member	No Fee
Unemployed member (Dues waiver required)	No Fee
Precollege teacher	90
Graduate, less than postdoctoral	180
Undergraduate	90
One-day registrant	220
<b>NONMEMBERS</b>	
Chemical scientist	\$770
Postdoctoral scientist	770
Visitor: Nonchemical scientist or chemical technician	435
Precollege teacher	90
Graduate, less than postdoctoral	360
Undergraduate	180
One-day registrant	435
Guest of registrant <sup>a</sup>	40
<b>EXPOSITION-ONLY VISITORS</b>	
Adult, exposition only	\$50
Student, exposition only	25

<sup>a</sup> Registration is restricted to a spouse or family member of registered attendee having no affiliation with the field of chemical science and who is not eligible to become an ACS member. Only one guest registration is allowed per registering attendee, and the guest registration must be completed and paid by the registering attendee at time of original registration.

## REGISTRATION

**Early Registration.** Early registration for the national meeting closed on July 24; registrations or payments received after July 24 will be processed at standard registration rates. Attendees who registered by July 24 should receive their badge credentials in the mail before the meeting. International registrants and early registrants who do not receive their badge credentials before the meeting must pick them up at ACS Attendee Registration (Pennsylvania Convention Center, Grand Hall).

**Standard & On-Site Registration.** Standard registration rates are in effect until Aug. 23. Register online at [www.acs.org/philly2012](http://www.acs.org/philly2012). A valid ACS membership number must be entered during registration to register as a member and receive your member discount on registration fees. Attendees who register after July 24 must pick up their badge credentials at ACS Attendee Registration in the Pennsylvania Convention Center, Grand Hall, during the meeting. Please bring your e-mail confirmation for faster processing.

In Philadelphia, attendees can pick up their badge credentials or complete a new registration using credit card, cash, check, or money order at ACS Attendee Registration in the Pennsylvania Convention Center, Grand Hall, on Saturday, 3 to 6 PM; Sunday, 7:30 AM to 7:30 PM; Monday, 7:30 AM to

### ACS BADGE REPRINT POLICY

**1st Badge Reprint:** No charge, upon proper identification and confirmation of registration payment, a duplicate badge is issued.

**2nd Badge Reprint:** Attendee completes a duplicate badge request, shows identification, a charge of \$25 is paid (cash/credit card), a duplicate badge is issued.

**3rd Badge Reprint:** Attendee completes a duplicate badge request, shows identification, a charge of \$50 is paid (cash/credit card), a duplicate badge is issued.

**Beyond 3rd Badge Reprint:** Attendee completes a duplicate badge request, shows identification, a charge of \$100 is paid (cash/credit card), a duplicate badge is issued.

9:30 PM; Tuesday and Wednesday, 7:30 AM to 5:30 PM; and Thursday, 7:30 AM to 1 PM.

## SOCIAL EVENTS

**A VARIETY** of organizers are hosting special events during the meeting. Event participation is open to all interested registrants. Some events require purchase of a ticket to participate. The following events are coded to indicate what is required to participate: **T**—ticket required; **NT**—sponsored, no ticket required; **COD**—payment due based on individual consumption at event; all nonticketed events require a visible registration badge for entry. View an updated listing of social and special events at [www.acs.org/philly2012](http://www.acs.org/philly2012).

Ticket sales for specific events will close at 6 PM the evening prior to the event. Some event organizers may offer a limited number of tickets for sale at the door of the events. All tickets are sold on a first-come, first-served basis. Cancellations or refund requests must be made by Aug. 7. No refunds will be issued after that date.

### SATURDAY, AUG. 18

#### Project SEED & Chemistry Olympiad Luncheon (NT)

Noon to 1 PM, Philadelphia Marriott Downtown, Conference Room 306

#### TOXI Workshop—Spectroscopy Applications in Toxicology & Metabolism/SE-01/\$45 (T)

1 to 5 PM, Pennsylvania Convention Center, 110A

#### TOXI Workshop—Writing Fellowships & Other Grants at the Pre- & Postdoctoral Level/SE-02/\$15 (T)

1 to 5 PM, Pennsylvania Convention Center, 110B

#### COACH Reception (NT)

5 to 7 PM, Sheraton Philadelphia City Center Hotel, Salons 5&6

### SUNDAY, AUG. 19

#### Undergraduate Student Hospitality Center

8 AM to 5 PM, Sheraton Philadelphia City Center Hotel, Liberty Ballroom C&D

#### ACS Career Fair

8 AM to 6 PM, Pennsylvania Convention Center, Hall C

#### WCC Workshop—Lens of the Market/SE-03/\$60 (T)

9 AM to 3 PM, Philadelphia Marriott Downtown, Independence Ballroom III

#### Board Executive/Open Meeting

Noon to 1 PM, Pennsylvania Convention Center, 108AB

#### CHED High School-College Interface Luncheon/SE-04/\$35 (T)

(Included at no charge with high school teacher registration.)  
Noon to 1 PM, Pennsylvania Convention Center, 111AB

#### Get To Know Sci-Mind Exclusive Event for Industry Scientists

4:30 to 5:30 PM, DoubleTree by Hilton Philadelphia Center City, Ormandy East

#### I&EC Reception Honoring 2009 & 2010 ACS Fellows in the I&EC Division & Honoring I&EC Graduate Award Symposia Participants (NT)

5 to 6:30 PM, Philadelphia Marriott Downtown, Franklin Hall 3

#### Undergraduate Programs Networking Social with Graduate School Recruiters (NT)

5 to 6:30 PM, Sheraton Philadelphia City Center Hotel, Liberty Ballroom C&D

#### University of Wisconsin, Madison, Alumni & Friends (NT)

5 to 7 PM, DoubleTree by Hilton Philadelphia City Center, Overture

#### CHED Social Reception (NT)

5:30 to 7 PM, Pennsylvania Convention Center, Terrace Ballroom I

#### ACS Diversity Reception (NT)

5:30 to 7:30 PM, Philadelphia Marriott Downtown, Franklin Hall 1

#### ACS Petroleum Research Fund/Research Corporation Joint Reception (NT)

5:30 to 7:30 PM, Philadelphia Marriott Downtown, Liberty Ballroom C

#### BIOL Poster Session

5:30 to 7:30 PM, Pennsylvania Convention Center, Hall C

# FINAL PROGRAM

## **IAC International Welcoming Reception (NT)**

5:30 to 7:30 PM, Loews Philadelphia Hotel, Millennium Hall

## **25 Years of NCW Reception (NT)**

6 to 8 PM, Chemical Heritage Foundation, 315 Chestnut St.

## **INOR Poster Session**

6 to 8 PM, Pennsylvania Convention Center, Hall D

## **Attendee Welcome Reception**

6 to 8:30 PM, Pennsylvania Convention Center, Halls A&B

## **CELL Poster Session**

6:30 to 8:30 PM, Pennsylvania Convention Center, Hall D

## **CINF Welcoming Reception & Poster Session**

6:30 to 8:30 PM, Philadelphia Marriott Downtown, Liberty Ballroom A

## **CARB Poster Session**

6:30 to 9:30 PM, Pennsylvania Convention Center, Hall D

## **CHED Poster Session**

7 to 9 PM, Pennsylvania Convention Center, Terrace Ballroom I

## **MEDI General Poster Session**

7 to 9 PM, Pennsylvania Convention Center, Hall D

## **ORGN Poster Session**

8 to 10 PM, Pennsylvania Convention Center, Hall D

---

## **MONDAY, AUG. 20**

## **YCC Fun Run/SE-05/\$30 (T)**

5 to 10 AM, Pennsylvania Convention Center, 1101 Arch St.

## **Corporation Associates Breakfast**

7 to 9 AM, Four Seasons Hotel Philadelphia, Jefferson Room

## **WCC Women in the Chemical Enterprise Breakfast—LinkedIn Training with Deborah L. Smith/SE-06/\$35 (regular)/SE-07/\$18 (student) (T)**

(A limited number of student tickets are available. Students may purchase regular tickets if student tickets are sold out.)

7:30 to 9:30 AM, Philadelphia Marriott Downtown, Liberty Ballroom A/B

## **Graduate School Recruiters' Breakfast**

8 to 9:30 AM, Sheraton Philadelphia City Center Hotel, Liberty Ballroom C&D

## **ACS Career Fair**

8 AM to 5 PM, Pennsylvania Convention Center, Hall C

## **ACS Exposition**

9 AM to 5 PM, Pennsylvania Convention Center, Halls A&B

## **Women Chemists of Color Networking Social**

10 AM to noon, Philadelphia Marriott Downtown, Franklin Hall 1

## **Committee on Minority Affairs Reception & Luncheon/SE-08/\$40 (T)**

11:30 AM to 1:30 PM, Philadelphia Marriott Downtown, Liberty Ballroom A/B

## **Undergraduate Program Eminent Scientist Lecture & Lunch/SE-09/\$35 (T)**

(Included at no charge with undergraduate registration.)

11:45 AM to 1:15 PM, Pennsylvania Convention Center, 108AB

## **CHAL Luncheon with the Hon. Pauline Newman/SE-10/\$20 (T)**

Noon to 1:30 PM, Chemical Heritage Foundation, 315 Chestnut St.

## **PROF Networking Lunch**

Noon to 1:30 PM, Philadelphia Downtown Courtyard by Marriott, Juniper's Ballroom

## **Corporation Associates Luncheon**

Noon to 2 PM, Four Seasons Hotel Philadelphia, Jefferson Room

## **AGRO Poster Session**

1 to 5 PM, Pennsylvania Convention Center, Hall D

## **ACS Fellows Ceremony**

1:30 to 4 PM, Philadelphia Marriott Downtown, Grand Ballroom E/F

## **Undergraduate Research Poster Session**

2 to 4 PM, Pennsylvania Convention Center, Hall D

## **University of Pennsylvania Chemistry Alumni Reception**

5 to 7 PM, Chemical Heritage Foundation, 315 Chestnut St.

## **COLL Social Hour/Poster Session**

5:30 to 8 PM, Pennsylvania Convention Center, Hall G

## **Harry's Party**

5:30 to 8:30 PM, Sheraton Philadelphia City Center Hotel, Governor's Suite

## **INOR Poster Session**

6 to 8 PM, Pennsylvania Convention Center, Hall D

## **Binghamton University (SUNY) Alumni & Friends Reception**

6:30 to 8:30 PM, Philadelphia Marriott Downtown, Grand Ballroom Salon C

## **Emory University Chemistry Department Reception**

6:30 to 9:30 PM, Sofitel Philadelphia, Chez Collette Room

## **Graduate & Postdoctoral Scholars Reception**

7 to 8:30 PM, Pennsylvania Convention Center, 108AB

## **Larry Marnett Retirement Reception**

7 to 9 PM, Philadelphia Marriott Downtown, Grand Ballroom A/B

## **Chinese-American Chemical Society Social Hour & Dinner/SE-11/\$30 (T)**

7:30 to 9:30 PM, Joy Tsin Lau Chinese Restaurant, 1026 Race St.

## **Sci-Mix Interdivisional Poster Session & Mixer/Drink Ticket at Registration**

8 to 10 PM, Pennsylvania Convention Center, Hall D

---

## **TUESDAY, AUG. 21**

## **Senior Chemists Breakfast/SE-12/\$15 (T)**

7:30 to 9:30 AM, Philadelphia Marriott Downtown, Liberty Ballroom A

## **University of Minnesota Alumni & Friends Breakfast/SE-21/\$5.00 (T)**

7:30 to 9:30 AM, Pennsylvania Convention Center, 108B

**ACS Career Fair**

8 AM to 6 PM, Pennsylvania Convention Center, Hall C

**ACS Exposition**

9 AM to 5 PM, Pennsylvania Convention Center, Halls A&B

**WCC/Eli Lilly & Co. Poster Session & Reception**

11 AM to noon, Philadelphia Marriott Downtown, Liberty Ballroom A/B

**Alpha Chi Sigma Fraternity Luncheon/\$25 (COD)**

11:30 AM to 1 PM, Philadelphia Marriott Downtown, 13 Restaurant  
Sign up by contacting Gary Anderson, Alpha Eta '62 at (304) 634-1921 or e-mail [Anderson@marshall.edu](mailto:Anderson@marshall.edu)

**I&EC Graduate Award Symposia Luncheon/SE-13/\$47 (T)**

11:30 AM to 1 PM, Philadelphia Marriott Downtown, Conference Room 405

**CINF Luncheon/SE-14/\$15 (T)**

Noon to 1:30 PM, Philadelphia Marriott Downtown, Franklin Hall 9&10

**COLL Luncheon/SE-15/\$40 (T)**

Noon to 1:30 PM, Pennsylvania Convention Center, 108B

**WCC Luncheon/SE-16/\$45 (regular)/SE-17/\$23 (student) (T)**

(A limited number of student tickets are available. Students may purchase regular tickets if student tickets are sold out.)  
Noon to 1:30 PM, Philadelphia Marriott Downtown, Liberty Ballroom A/B

**AGRO Poster Session**

1 to 5 PM, Pennsylvania Convention Center, Hall D

**AGFD & ENFL Poster Session**

2 to 4 PM, Pennsylvania Convention Center, Hall D

**Mid-Afternoon Reception Sponsored by Teva Pharmaceuticals**

3:20 to 3:50 PM, Pennsylvania Convention Center, 203AB

**University of Rochester Alumni Social Hour (NT)**

5 to 6:30 PM, Philadelphia Marriott Downtown, Independence Ballroom I

**College of Science & Technology at Temple University Alumni Reception (NT)**

5 to 7 PM, Loews Philadelphia Hotel, Howe

**Iota Sigma Pi—National Honor Society for Women in Chemistry (NT)**

5 to 7 PM, Pennsylvania Convention Center, 111A

**Journal of Physical Chemistry/PHYS Division Reception (NT)**

5 to 7 PM, Philadelphia Marriott Downtown, Franklin Hall 9&10

**UMass Amherst POLY Science & Engineering Reception (NT)**

5 to 7 PM, Sheraton Philadelphia City Center Hotel, Horizon Rooftop Ballroom

**Arthur C. Cope Award & Scholars Award Symposium Reception**

5:15 to 6:45 PM, Loews Philadelphia Hotel, Washington A

**BIOL Poster Session**

5:30 to 7:30 PM, Pennsylvania Convention Center, Hall C

**MEDI Hall of Fame Ceremony**

5:30 to 7:30 PM, Pennsylvania Convention Center, Grand Ballroom B

**Presidential Gay, Lesbian & Transgender Chemists & Allies Reception (NT)**

5:30 to 7:30 PM, Philadelphia Marriott Downtown, Conference Rooms 304/305

**POLY/PMSE Poster Session & Reception (NT)**

5:30 to 8:30 PM, Sheraton Philadelphia City Center Hotel, Liberty Ballroom C&D

**I&EC Poster Session**

6 to 7:30 PM, Pennsylvania Convention Center, Hall D

**COMP Poster Session**

6 to 8 PM, Pennsylvania Convention Center, Hall G

**INOR & ENVR Poster Session**

6 to 8 PM, Pennsylvania Convention Center, Hall D

**AGRO Social (NT)**

6 to 8:30 PM, Loews Philadelphia Hotel, Millennium Hall

**ANYL Reception/SE-18/\$10 (T)**

6 to 8:30 PM, The College of Physicians of Philadelphia, 19 South 22nd St.

**George Washington University Chemistry Alumni Reception (NT)**

6 to 8:30 PM, Philadelphia Marriott Downtown, Conference Room 306

**ENVR Dinner & Social/SE-20/\$60 (T)**

6:30 to 9 PM, Chemical Heritage Foundation, 315 Chestnut St.

**ENFL Awards Dinner/SE-19/\$45 (T)**

6:30 to 9:30 PM, Maggiano's Little Italy, 1201 Filbert St.

**TOXI General Posters**

7:30 to 9:30 PM, Pennsylvania Convention Center, Terrace Ballroom IV

**ChemLuminary Awards Reception (NT)**

8 to 9 PM, Pennsylvania Convention Center, Terrace Ballroom Foyer

**ORGN Poster Session**

8 to 10 PM, Pennsylvania Convention Center, Hall D

**ChemLuminary Awards Banquet (NT)**

9 PM to midnight, Pennsylvania Convention Center, Terrace Ballroom I

---

**WEDNESDAY, AUG. 22****AGRO Blues & Brews**

5 to 7 PM, Loews Philadelphia Hotel, Millennium Hall

**POLY/PMSE Awards Reception (NT)**

5:30 to 8 PM, Sheraton Philadelphia City Center Hotel, Horizon Rooftop Ballroom

**ENVR & INOR Poster Session**

6 to 8 PM, Pennsylvania Convention Center, Hall D

**PHYS Poster Session**

6 to 9 PM, Pennsylvania Convention Center, Hall D

**MEDI & ORGN General Poster Session**

7 to 10 PM, Pennsylvania Convention Center, Grand Ballroom

## EXPOSITION

**SEE WHAT'S NEW INSIDE THE EXPOSITION.** Take time to visit the ACS National Exposition at the Pennsylvania Convention Center, Halls A&B, from Sunday, Aug. 19, through Tuesday, Aug. 21. The show hours will be Sunday, 6 to 8:30 PM, and Monday and Tuesday, from 9 AM to 5 PM.

Companies will showcase services, instruments, books, computer hardware, scientific software, and a wide array of chromatographic, lab, and safety equipment. Technical personnel will also be available to give demonstrations, answer questions, and discuss your specific needs and interests. You can also visit the ACS Career Fair Recruiters Row inside the exposition, where employers will showcase their products and services. Also, join us at the ACS Booth in the middle of the exposition floor where ACS staff units will present the many benefits, services, products, and merchandise offered by ACS.

**Online Exposition.** The Online Exposition is a component within the Exhibitor Directory that enables attendees to view videos, press releases, brochures, and flyers of participating exhibitors. Access the Online Exposition at [www.acs.org/philly2012](http://www.acs.org/philly2012) to learn more about exhibiting companies and to download product information that meets your needs.

**Virtual Exposition.** Can't attend the exposition? Engage in live discussions with, watch videos of, and take advantage of special offers from participating virtual exhibitors. Register for the Virtual Exposition at [www.acs.org/ve](http://www.acs.org/ve), which features the ACS Career Fair for free.

**Free Exhibitor Workshops.** Free workshops will be hosted by exhibitors on the exposition floor and in private rooms inside the Pennsylvania Convention Center. These workshops will introduce new products and services, build skills with specific tools and techniques, and highlight innovative applications that may improve your productivity. Preregister at [www.acs.org/philly2012](http://www.acs.org/philly2012) to reserve your seat. Preregistered attendees will be entered into a prize drawing; winners will be announced during the session.

**Presentations, Prizes & Special Events.** Visit the Daily Prize Raffle area from Sunday through Tuesday for a chance to win a prize and to pick up your meeting souvenir T-shirt (while supplies last). Also, don't forget to join us on Sunday from 6 to 8:30 PM for the Attendee Welcome Reception and visit the exposition on Monday and Tuesday for up \$2.00 off your concession order. Meet the ACS

president-elect candidates on Monday from 3 to 5 PM in front of the ACS Booth. Look inside your meeting registration credentials for further information.

**Exhibitor Passport Check-in.** You will find the flyer that lists the exhibitors participating in the Exhibitor Passport inside your registration credentials. Or you can pick up your copy at Exhibitor Registration located in Lobby A. Have each participating exhibitor stamp their block, then bring your completed card to the Exhibitor Passport Check-in area to be entered for a chance to win an amazing prize.

**Internet & Technology.** Utilize free Internet access and leave messages for one another at the Meeting Mail terminals located throughout the meeting. Also, enjoy free Wi-Fi service in the Pennsylvania Convention Center lobby.

**Admission Requirements & Expo-Only Registration.** Exposition admission is complimentary for all national meeting registrants; however, you are required to wear your badge. Individuals who want to visit the exhibits without registering for the technical component of the national meeting can obtain an expo-only badge for \$50. Students with school identification can obtain an expo-only badge for \$25. Registration can be handled online, by mail, or in person at ACS Attendee Registration.

## EXHIBITOR WORKSHOPS

**EXHIBITING COMPANIES** will host free education sessions for attendees that will introduce new products and services, build skills with specific tools and techniques, and highlight innovative applications for existing instrumentation. Exhibitor workshops are intensive, up to two-and-a-half-hour sessions held at the Pennsylvania Convention Center in Halls A&B and in private rooms. Please register by Aug. 10 for exhibitor workshops at [www.acs.org/philly2012](http://www.acs.org/philly2012). If you miss the registration deadline, visit the exhibitor at their booth inside the ACS National Exposition, Pennsylvania Convention Center, Halls A&B.

### MONDAY, AUG. 20

**Reaxys from Elsevier—Integrating Reaxys into Your Chemistry Research Workflow.** *Sponsor:* Elsevier, Booth 618,

Room 202A, 8:30 to 11 AM. Learn how Reaxys enhances the chemistry research workflow and explore in-depth the latest developments in Reaxys. Learn more about Reaxys and electronic laboratory notebook (ELN) integration and how researchers can effectively access the relevant results and store and share them as appropriate. Discover how to easily prepare reports, prepare effective synthesis plans, and reduce the time spent locating reliable chemical reaction and substance data. Learn how to make the most of the data analysis tools and be more effective in your search strategies.

**Advanced Polymer Characterization Workshop.** *Sponsor:* Tosoh Bioscience, Booth 519, Halls A&B, Workshop Room 1, 9:30 AM to noon. Gel permeation chromatography (GPC), light scattering, viscometry, GPC/mass spectrometry, and beyond. Don't miss your chance to explore state-of-the-art solutions to the challenges of characterizing today's sophisticated polymer formulations. Let

the experts show you how to obtain the data needed to control and understand polymeric properties such as elongation, tensile strength, adhesion, and compositional drift.

**Smarter FTIR. Definitive Answers. Introducing the Thermo Scientific Nicolet iS50 FTIR Spectrometer.** *Sponsor:* Thermo Scientific, Booth 1327, Room 202A, noon to 2:30 PM. The Thermo Scientific Nicolet iS50 FT-IR spectrometer gives definitive answers in your analytical laboratory where fast, easy workflows are essential. No other FTIR goes beyond your expectations to offer one-touch simplicity, flexibility, and integration in such a small, cost-effective workstation. The Nicolet iS50 is so advanced you won't think of it as simply an FTIR.

### TUESDAY, AUG. 21

**Author Workshop—How To Successfully Publish Scientific Articles.**

*Sponsor:* Elsevier, Booth 618, Room 202A, 8:30 to 11 AM. This workshop is for early-career scientists looking for assistance in identifying, preparing, and submitting research articles to an academic journal. It will provide advice on best practices, top tips, ethics, the review process, and other important considerations. Are you a Ph.D. student interested in publishing your first scientific article, a young postdoc who wants to understand why articles are rejected, or a researcher who wishes to know what goes on behind the scenes in scientific publishing? Then this workshop is for you! We will address questions such as: What do I need to consider when preparing my article? How do I write an article for a specific journal? What happens after I submit my article to a scientific journal? Which tools are available during the writing process? Visit [elsevier.com/authors](http://elsevier.com/authors) for information about the publishing process.

**ChemSpider & You: A Workshop Exploring How ChemSpider Can Help You Find Chemical Information.**

*Sponsor:* Royal Society of Chemistry, Booth 701, Halls A&B, Workshop Room 2, 9:30 AM to noon. This two-hour interactive session will comprise a brief overview of the key features of the ChemSpider website followed by an open floor discussion where participants can ask both general questions and explore how they can use ChemSpider as part of their own chemical information searching practices. The workshop is suitable for participants with no ChemSpider experience or for regular users who want to get more out of their searches.

**Electrochemical Measurements & Simulation.** *Sponsor:* Gamry Instruments, Booth 506, Halls A&B, Workshop Room 1, 9:30 AM to noon. Learn about principles of electrochemical measurements through methods including cyclic voltammetry, electrochemical impedance spectroscopy, Fourier transform voltammetry, and quartz crystal microbalance.

**Introducing the Latest Thermo Scientific Advances in IC-ICP/MS, HPIC, GC, & GC/MS To Help Increase Your Lab Productivity & Results.** *Sponsor:* Thermo Scientific, Booth 1327, Room 202A, noon to 2:30 PM.

**Charge Detection & IC-ICP/MS: The Latest in Ion Chromatography Detection.** Come and learn about the latest advances in ion chromatography (IC)

detection systems. The all-new charge detector (QD) responds to ionic species in solution by measuring the current flow between two electrodes at a fixed potential. With QD, response is proportional to charge, which can lead to universal calibration while weakly dissociated species (organic acids, amines, borate, and silicate) give a more linear response. QD complements the more traditional conductivity detector. Also, see how combining IC with inductively coupled plasma mass spectrometry (ICP/MS) allows speciation of multivalent elements such as arsenic, chromium, selenium, iodine, and others. Highlights will include the determination of arsenic speciation in apple juice and hexavalent chromium in drinking water.

**High-Pressure Ion Chromatography (HPIC) for Increased Resolution & Speed.** With the advent of capillary ion chromatography systems that can operate up to 5,000 psi, combined with smaller particle size ion-exchange packing materials (4  $\mu\text{m}$ ), the realm of high-pressure IC now affords increased separation efficiencies, increased resolution, and faster separations. Come see how this technology can be applied to a variety of sample types ranging from environmental, food and beverage, and industrial applications.

**Going Modular: Introducing the Newest Innovations in GC.** Discover a higher level of instrument usability with the next-generation gas chromatographer. It has engineered miniaturized plug-in injectors and detectors, and it will redefine usability in routine and high-throughput laboratories. See why the Trace 1300 GC may be the best fit for your laboratory.

**Maximize GC/MS Productivity & Flexibility.** Learn how you can tackle today's challenges with the advanced features of the ISQ single-quadrupole GC/MS. Discover how the innovative ExtractaBrite ion source assembly can be removed and replaced in less than three minutes without venting the MS. Also learn about the advanced capabilities of the ITQ series ion trap.

**Making NMR Accessible: picoSpin-45 NMR Spectroscopy in the Classroom.** *Sponsor:* picoSpin, Booth 405, Room 202A, 3:30 to 6 PM. The picoSpin-45 Miniature NMR spectrometer is a 45-MHz permanent magnet spectrometer providing high-resolution spectra in a portable, compact design. Measuring an  $^1\text{H}$  NMR spectrum to determine product purity,

monitoring the course of a chemical reaction, or elucidating molecular structure is a valuable skill best acquired through hands-on experience. It personalizes the process for students, making it a much more meaningful learning experience, and remains a powerful teaching method for instructors. The low cost and small footprint of miniature and benchtop instrumentation brings NMR to the student, in the classroom or lab, providing increased accessibility to a broader group of students. The picoSpin-45 spectrometer has applications in organic, physical, and analytical chemistry teaching labs and classrooms, from basic spectrometric concepts such as multiplet patterns and spin-spin coupling, to more advanced applications of chemical reaction dynamics and measuring spin-lattice relaxation ( $T_1$ ) delays.

---

**WEDNESDAY, AUG. 22**

**Optibrium's StarDrop: User Group & Workshop.** *Sponsor:* Optibrium, Booth 404, Room 202A, noon to 2:30 PM. Learn more about Optibrium's StarDrop software and how it intuitively guides decisions on the design and selection of high-quality compounds in drug discovery. Hear about practical applications of StarDrop from current users, find out about the latest features, and try a hands-on example. Everyone is welcome, whether you are a current user or just want to find out about StarDrop and how it can help your projects.

**Protein Homology Modeling, Loop Grafting & Sampling.** *Sponsor:* Chemical Computing Group, Room 113A, 3:30 to 6 PM. This is a hands-on workshop that will include practical examples of creating and refining protein homology models. Topics will include preparing protein structures, sequence and structural protein alignments, and the basics of homology modeling. Advanced homology modeling topics such as interactive loop grafting, conformational searching of loops with LowModeMD, and using atom environments during model refinement will also be covered. **Note:** Computers will be provided for the hands-on exercises (seats are limited). The molecular modeling software package MOE will be used during the workshop. More information about MOE can be found at [chemcomp.com/software.htm](http://chemcomp.com/software.htm). To reserve a seat, please e-mail [ralvarez@chemcomp.com](mailto:ralvarez@chemcomp.com).

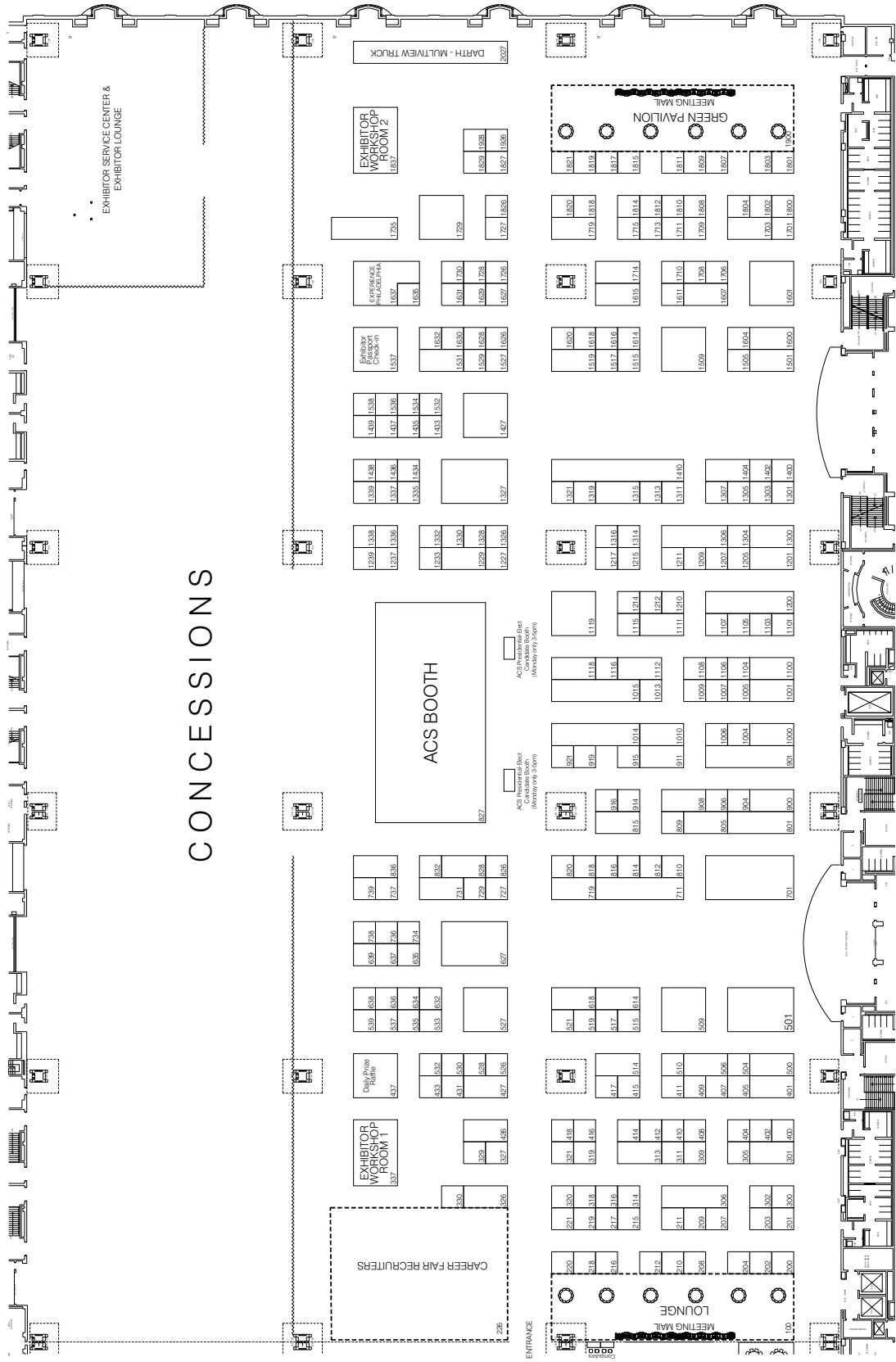
# American Chemical Society National Exposition

Also Featuring the ACS Career Fair Recruiters Row  
 Pennsylvania Convention Center, Halls A&B

August 19–21, 2012

Sunday, 6–8:30 PM & Monday–Tuesday, 9 AM–5 PM

[www.acs.org/philly2012](http://www.acs.org/philly2012)



## EXHIBITORS

The following list of exhibitors is the property of the American Chemical Society. Any unauthorized use of this list, or any part thereof, either directly or indirectly, is strictly prohibited.

Visit the Online ACS National Exposition at [www.acs.org/philly2012](http://www.acs.org/philly2012) to download the updated exhibitor list and access product information.

**2mag-USA**, P.O. Box 214769, Daytona Beach, FL, United States 32121-4769, Internet: [www.2magUSA.com](http://www.2magUSA.com) Inductive Single- and Multi-Position Magnetic Stirring Systems without Motors. Submersible Stirring Systems for volumes from 1 ml up to 10 liter models with up to 96 stirring positions, without any moving parts. 100% maintenance- and wear-free; temperature resistant up -10 to +200 deg.C submersed or in ovens with stirring speeds from 100 to 2,000 rpm. Large Industrial Stirrers for up to 1,000 liter. Cell and Tissue Culture Stirring Systems. Multiple Stirring Hotplates and Multiple Stirring Heating Blocks (Stirring Drybaths). Customized Stirring Systems. **1706**

**AAPPTec**, 6309 Shepherdsville Road, Louisville, KY 40228, 502-968-2223, fax: 502-968-3338, e-mail: [info@AAPPTec.com](mailto:info@AAPPTec.com), Internet: [www.aapptec.com](http://www.aapptec.com) AAPPTec is the one source for quality peptide products and innovative products for solid phase peptide synthesis. We utilize the latest methodologies to produce high purity peptides rapidly, efficiently and affordably. AAPPTec provides automated and semi-automated synthesizers worldwide for research and industrial scale production. We provide top quality resins, reagents and amino acid derivatives for peptide synthesis; including pseudo-proline dipeptides, isoacyl dipeptides, PEGylation reagents, glyco-amino acids, and building blocks for stapled peptides and click chemistry. Other products include HPLC systems, columns, and lyophilization equipment for preparing high quality peptides. AAPPTec products increase chemists' productivity and increase the chances of success. **916**

**Ace Glass, Inc.**, 1430 N. West Blvd., POBox 688, Vineland, NJ 08360, 800-223-4524, fax: 800-543-6752, e-mail: [sales@aceglass.com](mailto:sales@aceglass.com), Internet: [www.aceglass.com](http://www.aceglass.com) Ace Glass manufactures lab glassware & equipment. ACE also manufactures Process and Pilot Plant scale glass reactors. ACE will feature our new NO-AIR product line for air sensitive chemistry and both bench scale and process scale glass reactors. ACE introduces our new process scale vacuum & liquid handling pump lines. Ace also manufactures both bench and large scale rotary evaporator glassware. **426**

**Across International**, 200 Connell Drive, Suite 1900, Berkeley Heights, NJ, United States 07922, 888-988-0899, fax: 888-988-1899, Internet: [www.acrossinternational.com](http://www.acrossinternational.com) Founded in New Jersey, United States, Across International supplies laboratory equipment in the areas of heat treatment and material processing for universities, research facilities and labs. We have more than 15 years of industry manufacturing experience in induction heaters, drying ovens, ball mills, lab furnaces, pellet presses and pressing dies. **1800**

**ACS Committee on Health Safety/Div. of Chemical Health & Safety**, P.O. Box 152329, CA, United States 92195, 619-990-4908, CCS and CHAS provide information, ACS policy and technical guidance related to chemical safety at

all levels of use including K-12, college and university, industrial and consumer handling of chemicals. Booth personnel are present and prepared to answer your chemical safety questions. **1713**

**ACS Membership Division**, 1155 16th St., NW, Suite OTH420, Washington, DC 20036, 202-872-6062, Internet: [www.acs.org/MemberHandbook](http://www.acs.org/MemberHandbook) Learn. Lead. Collaborate. Advance. Benefit. The ACS Member Benefits kiosk represents all of the programs, products and services that ACS offers. Attendees will discover professional development and educational offerings as well as networking opportunities with the global scientific community. To learn more about benefits of ACS membership, visit the ACS Member Handbook at [www.acs.org/MemberHandbook](http://www.acs.org/MemberHandbook). **827**

**ACS Division of Small Chemical Businesses (SCHB)**, 138-10 Franklin Avenue #9L, Flushing, NY, United States 11355, 917-684-1659, e-mail: [expo-booth@acs-schb.org](mailto:expo-booth@acs-schb.org), Internet: [www.acs-schb.org](http://www.acs-schb.org) SCHB: Where all the elements come together for a successful chemical business. The objective of the ACS Division of Small Chemical Businesses (SCHB): "To aid in the formation, development, and growth of small chemical businesses." SCHB helps chemists working in small enterprises with the legal, social, educational, legislative, regulatory, and economic aspects of their unique status. SCHB serves as a clearinghouse of information, a forum for discussion, and a liaison with students. SCHB has informative programs at its meetings, provides valuable member-only content, including discounted booth space at national meetings, and offers a strong network of members for support. **1433**

**ACS Education**, 1155 16th Street, NW, Washington, DC 20036, 202-872-6269, fax: 202-833-7732, e-mail: [education@acs.org](mailto:education@acs.org), Internet: [www.acs.org/education](http://www.acs.org/education) The Education Division of the American Chemical Society has products and programs for kindergarten through professional education. Students, teachers, and ACS members can all find information that can help their efforts in increasing science literacy. We also have information on the Directory of Graduate Education (DGR) and the ACS Approval Program for undergraduate programs. Our booth is staffed with knowledgeable ACS staff who can answer questions regarding our wide variety of programs and products. **827**

**ACS Green Chemistry Institute®**, 1155 16th Street, NW, Washington, DC 20036, 202-872-6102, fax: 202-776-8009, e-mail: [gci@acs.org](mailto:gci@acs.org), Internet: [www.acs.org/greenchemistry](http://www.acs.org/greenchemistry) The ACS Green Chemistry Institute® inspires advancements in the fields of green chemistry and green engineering. As a part of the American Chemical Society, our expertise is guided by Education, Industry Advancement, Advocacy, and Certification. Our grants and awards influence research agendas. Our business cases and white papers document the value and investment return on green chemistry. A greener chemical products and processes ANSI certification has recently been approved under our direction. We are engaged at all levels to promote policies and legislation to advance green chemistry for the betterment of the ecosystem and the general public. **828**

**ACS Indiana Local Section**, Sales Contact: Bob Desautels, Senior Manager, Convention Services As host of ACS's Fall Convention September 7-12, 2013, Indianapolis will be providing information and material for ACS members. The city that will host the meeting to be dubbed "Chemistry in Motion" is located in the heart of the country and within a day's drive to more than 60% of the country's population. Obtain material and special give aways at booth 1632. You soon learn that All roads Lead to Indy. **1632**

**ACS Meetings & Expositions**, 1155 Sixteenth Street NW, Washington, DC, United States 20036, 800-227-5558, fax: 202-872-6128, e-mail: [m\\_stevenson@acs.org](mailto:m_stevenson@acs.org), Internet: [www.acs.org/meetings](http://www.acs.org/meetings) The ACS Meetings booth displays information on current and future regional meetings also spring and fall National Meetings. Register for a regional meeting or get information on submitting an abstract to a meeting in your region. The programming is diverse and exciting! Meet the volunteers who are planning these meetings at the booth. Visit the regional meetings website at [www.acs.org/regionalmeetings](http://www.acs.org/regionalmeetings) for a tour of this year's conferences. Information on future national meetings will be on display. **827**

**ACS Member Insurance Program**, 1155 16th Street, N.W., Washington, DC 20036, 800-227-5558, ext. 6037, fax: 202-872-4435, e-mail: [memins@acs.org](mailto:memins@acs.org), Internet: [www.acs.org/insurance](http://www.acs.org/insurance) The ACS Member Insurance Program is committed to offering quality comprehensive insurance plans and financial security programs to members and their families. Member Insurance staff and Plan Administrators will be available to speak with you about Life and Health Insurance, Auto & Homeowners Plus, Disability Income, Long Term Care, Professional Liability, Medical Discount Cards, and our newest service ACS Group Special Event Cancellation and Liability Insurance. To receive more information or to sign up for one of the plans or services stop by the Member Insurance booth **827**

**ACS Office of Public Affairs**, 1155 16th St. NW, Washington, DC 20036, 202-872-4479, Internet: [www.acs.org/policy](http://www.acs.org/policy) The ACS Office of Public Affairs (OPA) works with ACS members to help advance the chemical enterprise by encouraging strong member participation in advocacy with legislators as well as in communicating with community leaders and the media. Stop by the OPA booth to learn more about how to get involved with advocacy through the Act4chemistry Network, how to be more effective communicators and advocates through the Chemistry Ambassadors initiative, and how to get involved with, or create, a Local Section Government Affairs and/or Public Relations Committees, and more! **827, 836**

**ACS Publications**, 1155 16th Street, N.W., Washington, DC 20036, 202-872-6862, fax: 202-872-6005, e-mail: [s.jackson@acs.org](mailto:s.jackson@acs.org), Internet: [pubs.acs.org](http://pubs.acs.org) Join ACS Publications in booth #827 to see what's new from the most trusted, most cited, and most read publisher in chemistry and the related sciences. Ask about our new journal ACS Sustainable Chemistry & Engineering and your new member publication benefits. Discover new developments on the ACS Publications web platform and test your knowledge with the ACS Publications iPad Challenge. Download the FREE C&EN Mobile app and instantly access complete issues of C&EN on your smart device. Pick a field – analytical, biological, materials or environmental – sign up for any one of these SCENES newsletters and get a candy bar! **827**

**ACS Store**, 1155 16th Street, NW, Washington, DC 20036, 800-ACS-5558, fax: 202-872-6067, Internet: [www.acs.org/store](http://www.acs.org/store) The ACS Store features limited edition chemistry themed merchandise, such as stuffed moles, t-shirts and beaker mugs. **827**

**ACS Web Strategy & Operations**, 1155 16th Street, NW, Washington, DC 20036, 202-872-4548, e-mail: [m.parker@acs.org](mailto:m.parker@acs.org), Internet: [www.acs.org](http://www.acs.org) [www.acs.org](http://www.acs.org) is your gateway to all things ACS, and home of the ACS Network, your professional network! From online career services, e-learning and webinars to online publications, journals and subscriptions, the web site of the American Chemical Society is your one stop to access the best products, services and programs to advance your career. The ACS Network lets you connect, collaborate and create communities of scientific interests. If you aren't taking advantage of all the ACS Network has to offer, visit the ACS Web Strategy & Operations booth and we can show you how! **827**



**Adam Equipment, Inc.**, 26 Commerce Dr., Danbury, CT 06810, 203-790-4774, fax: 203-792-3406, e-mail: info@adamequipment.com, Internet: www.adamequipment.com Adam Equipment is a world-class developer and manufacturer of analytical and precision balances and scales for the lab, education, industrial, food, health/fitness, animal/veterinary and jewelry markets. Adam supplies professionals worldwide with a variety of balances, scales and moisture analyzers for applications including weighing, density determination, counting, price calculating and inventory control. Our products are designed to provide the winning combination of speed, performance and value. The company is headquartered in England, with offices in the United States, South Africa, Australia and China. Founded in 1972, Adam is proudly celebrating its 40th anniversary in 2012. For more information, visit www.adamequipment.com. **517**

**AdValue Technology**, 3470 S. Dodge Blvd., Tucson, AZ 85713, 520-514-1100, fax: 520-747-4024, Internet: www.advaluetech.com A leading supplier of high temperature ceramic products made of alumina, fused quartz, and zirconia. Our products range from tubes, crucibles, combustion boats, plates and discs, thermocouples, sample pan for thermal analysis, to custom components. We have many different sizes in stock. Custom production is available upon request. **1727**

**Advanced Chemistry Development Inc.**, 8 King Street East, Suite 107, Toronto, ON, Canada M5C 1B5, 416-368-3435, fax: 416-368-5596, e-mail: info@acdlabs.com, Internet: www.acdlabs.com Advanced Chemistry Development, Inc., (ACD/Labs) is a chemistry software company that provides enterprise and desktop solutions to support R&D efforts. Areas of expertise include unique analytical and chemical knowledge management solutions; analytical data handling for chromatography, NMR, MS, LC/MS, IR, UV, and other techniques; ADME-Tox and physico-chemical property prediction; and chemical nomenclature. **1009**

**Advanced Polymer Materials Inc.**, 2264 Chemin St. Francois, Dorval, QC, Canada H9P 1K2, 514-683-8488, fax: 514-683-2070, e-mail: gary.yu@apmpolymers.com, Internet: www.apmpolymers.com Advanced Polymer Materials Inc is a Canada based manufacturing company with R&D capability. We produce innovative and unique biodegradable and biocompatible polymer materials to fill the need for scientific advancement in different areas, such as for new formulation for drug delivery systems. Our products include PEG/PCL, PEG/PLA, PEG/PLGA and other amphiphilic block copolymers, functional PEGs for pegylation, etc. We also supply other polymers including PS/PMMA, PEG/PS, etc. We provide custom synthesized polymers upon demand. We do contract research as well. **1335**

**Advion**, 10 Brown Rd., Ithaca, NY 14850, 607-379-4565, fax: 607-257-5761, Internet: www.advion.com The expression CMS is designed for the discovery research and process development synthetic organic chemistry market. Compact enough to operate in fume hoods and space-restricted laboratories, chemists now have direct access to identify, monitor and confirm compounds rapidly as they are created in the reactor. Moreover, the high performance single quadrupole mass spectrometer allows for rapid compound confirmation of normal phase chromatography fractions. The expression CMS is accessible and affordable to a range of application areas. More information about the high performance mass spec can be found at www.expressioncms.com and on Twitter @expressionCMS. **1601**

**Agilent Technologies**, 2850 Centerville Rd., Wilmington, DE 19808, 302-636-8264, fax: 302-633-8944, e-mail: karl\_hornberger@agilent.com, Internet: www.agilent.com/chem Agilent manufactures and distributes a complete line of instrumentation serving the clinical, analytical, biotech, environmental, pharmaceutical, forensic

science, food and flavor, academia, and all other laboratory markets that have needs for the best in quality, performance, and serviceability in the instruments they purchase. **501**

**AIP Publishing – Journal of Chemical Physics**, 2 Huntington Quadrangle, Suite 1 NO1, Melville, NY 11747, 516-576-2675, fax: 516-349-9704, e-mail: kschwalb@aip.org; Internet: jcp.aip.org, Sales Contact: Maryann Gross, Fulfillment & Marketing Asst. JCP publishes innovative results in leading-edge, as well as traditional areas of chemical physics, and continues to expand its scope to include groundbreaking, fundamental research in areas such as biological systems, polymers, materials, surfaces/interfaces, information theory and more. The journal offers Communications—free to all—with reports of unusual importance that merit rapid publication. Visit us at booth 535 for your chance to win a new iPad and to learn what's new with JCP. **535**

**AirClean Systems**, 3248 Lake Woodard Drive, Raleigh, NC 27604, 800849047224, fax: 919-256-6120, Internet: www.aircleansystems.com AirClean Systems offers a complete range of operator and process protection enclosures including the ground-breaking Independence™ and Patriot™ ductless fume hoods. In addition to ductless fume hoods, AirClean® Systems manufactures numerous application-oriented products such as PowderSafe™ balance enclosures, PCR workstations, Class 100 clean benches and microscope enclosures. All AirClean Systems products are designed and made in the US. **731**

**Aist-nt Inc.**, 359 Bel Marine Keys Blvd., Suite 20, Novato, CA 94949, United States, 415-884-9500, fax: 415-884-2775, e-mail: info@aist-nt.com, Internet: www.aist-nt.com, Sales Contact: Andrey Krayev, Application scientist **1827**

**AK Scientific, Inc.**, 30023 Ahern Avenue, Union City, CA 94587, 510-429-8835, Internet: www.aksci.com, Sales Contact: Kevin Zhou, Business Development AK Scientific's expanding catalog of in-stock chemical products, ready for same-day shipping from the San Francisco Bay Area, currently counts over 8,000 building blocks, intermediates, reagents, APIs, analytical references, biochemicals, and more. AKSci provides unmatched convenience with up-to-date price and stock status at www.aksci.com, and peerless service through same-day shipping, custom synthesis solutions, and international sourcing expertise. **1336**

**AkzoNobel/Kromasil**, 281 Fields Lane, Brewster, NY 10509, 845-276-8223, fax: 845-277-1406, e-mail: pat.preuss@akzonobel.com, Internet: www.kromasil.com **1013**

**Aldrich/Sigma-Aldrich**, 3050 Spruce St., St. Louis, MO 63103, 314-771-5765 x3969, fax: 314-286-7817, Internet: www.Aldrich.com Aldrich@Chemistry is the market leader in organic & inorganic chemicals, providing an innovative and comprehensive range of building blocks, reagents, advanced materials and stable isotopes for chemical synthesis, medicinal chemistry and materials science. Look to us for high-quality stockroom solvents and your basic research product needs. We offer Aldrich Market Select and other chemistry services designed to expedite your research from conception to experiment execution including AldrichCPR custom weighing and chemical sourcing. **815**

**Alfa Aesar-A Johnson Matthey Co.**, 26 Parkridge Rd, Ward Hill, MA 01835, 800-343-0660, fax: 800-322-4757, e-mail: info@alfa.com, Internet: www.alfa.com **719**

**AnalytiCon Discovery LLC**, 9700 Great Seneca Highway, Rockville, MD 20850, United States, 240-654-7575, Internet: www.ac-discovery.com **1829**

**Anasazi Instruments Inc.**, 4101 Cashard Ave., Suite 103, Indianapolis, IN 46203, 317-783-4126, fax: 317-783-7083, e-mail: sales@aiaimr.com, Internet: www.aiaimr.com No cryogen NMR! Anasazi Instruments, Inc. makes cryogen-

free 60 and 90MHz NMR instruments. These permanent magnet NMR instruments are robust and have applications in R&D, quality control, and teaching. These instruments are available in three configurations, 1H, 1H/13C, and 1H/multi-nuclear. The Eft spectrometer can measure simple 1D spectra as well as 2D COSY and 2D HETCOR spectra. Anasazi Instruments provides strong support and a strong warranty. **402**

**Anton Paar USA**, 10215 Timber Ridge Drive, Ashland, VA 23005, 800-722-7556, fax: 804-550-1057, e-mail: info.us@anton-paar.com, Internet: www.anton-paar.com Anton Paar produces high-quality measuring and analysis instruments for laboratory, research and industrial applications. In the fields of density and concentration measurement we are the established world leader. Our product portfolio also includes viscometers, rheometers, polarimeters, refractometers, instruments for X-ray structure analysis, microwave synthesis and microwave decomposition. For over eighty-five years, we have been at the forefront in developing solutions for diverse industries. With our strong emphasis on R&D and global partnerships with external research institutes, we turn ideas into instruments at the cutting edge of technology. **805**

**APAC Pharmaceutical LLC**, 6851 Oak Hall Lane, Suite 101, Columbia, MD 21045, 410-997-5552, fax: 410-465-7035, e-mail: sales@apacpharma.com, Internet: www.apacpharma.com, Sales Contact: Candy Zhang, Sales Manager APAC pharmaceutical LLC is headquartered in Maryland USA. We are specialized in custom synthesis and contract manufacturing of specialty chemicals, advanced intermediates, and APIs. APAC has a kilo scale cGMP facility in NJ, USA, which is FDA approved and has the license to handle specialty APIs and controlled substances. APAC also have a facility in Suzhou, China, which is designed for pilot and commercial APIs and advanced intermediates manufacturing. **1435**

**Applied Research & Photonics, Inc.**, 470 Friendship Road, Suite 10, Harrisburg, PA, United States 17111, Internet: arphotonics.net TeraSpectra: A terahertz spectrometer [http://arphotonics.net/teraspectra\\_terahertz\\_spectrometer.htm](http://arphotonics.net/teraspectra_terahertz_spectrometer.htm) TeraScanR: A scanning reflectometer [http://arphotonics.net/terahertz\\_scanning\\_reflectometer.htm](http://arphotonics.net/terahertz_scanning_reflectometer.htm) Teralmager: terahertz imaging system for surveillance [http://arphotonics.net/Teralmager\\_ARP\\_terahertz\\_imaging\\_system.htm](http://arphotonics.net/Teralmager_ARP_terahertz_imaging_system.htm) **1339**

**Arizona Instrument LLC**, 3375 N Delaware Street, Chandler, AZ, United States 85225, 800.528.7411, Internet: www.azic.com Arizona Instrument LLC, an ISO 9001:2008 registered company, designs, manufactures, and markets Computrac® moisture, solids, and ash analysis instruments. The MAX@ 4000XL provides the latest in rapid Loss on Drying technology available in the market today. With improved performance and quicker throughput, along with many new features and operator controls, the MAX@ 4000XL provides excellent repeatability and correlation to existing methods. It also has a web server option that allows test results to be downloaded, and test parameters to be uploaded via a local intranet. We provide complete customer service including application development, training, and instrument calibration and repair. **1313**

**Arjae Spectral**, 2359 N. Triphammer Road, Ithaca, NY, United States 14850, Internet: www.arjae-spectral.com Arjae Spectral has introduced spectrometers which present a new approach for improving spectral resolution. Arjae's spectrometer platforms (Raman, hyperspectral) have been designed to incorporate a high throughput virtual slit (HTVS), a patented innovation. These spectrometers use a larger input aperture (for max. throughput) in combination with a series of specially configured mirrors, lenses, and other elements to preserve total flux, allowing the delivery of dramatic performance improvements. **319**

**Ark Pharm, Inc.**, 1840 Industrial Drive, Suite 280, Libertyville, IL, United States 60048, 847-367-3680, fax: 847-367-3681, e-mail:sales@arkpharminc.com, Internet: www.arkpharminc.com Ark Pharm, Inc. is a supplier of medicinal building blocks, scaffolds and other heterocyclic intermediates. Our main products include various alcohols, amines, aldehydes, acids/esters, halo of heterocycles (indole, imidazole, pyrazole, pyridazine, pyridine, pyrimidine, pyrazine, piperazine, piperidine, pyrrolidine, thiazole, triazole, . . .). We have over 8,000 compounds in stock. Besides our catalog building blocks, our services our services include the synthesis and development of medicinal novel building blocks, novel templates, reference standard compounds, impurities, by-products and other organic intermediates. **734**

**Astatech, Inc.**, Keystone Business Park, 2525 Pearl Buck Road, Bristol, PA 19007, 215-785-3197, fax: 215-785-2656, e-mail:sales@astatechinc.com, Internet: www.astatechinc.com Founded in 1996 by former scientists working with leading pharmaceutical companies, AstaTech is one of earliest chemistry CRO companies in the United States and continues to see growth. Today, we have more than 100 chemists (40% PH.D or MS degree level) and serve 1000 companies worldwide. We offer over 10000 advanced intermediates and drug-like building blocks. 75% of our catalog products are available in stock and 10% products can be scaled up to kg / MT scales. By combing our chemistry expertise and our economic manufacturing capabilities, AstaTech can deliver chemistry solution from drug discovery to manufacturing with high quality at competitive costs. **200**

**Asylum Research**, 6310 Hollister Avenue, Santa Barbara, CA 93117, 805-696-6466, fax: 805-696-6444, e-mail:sales@asylumresearch.com, Internet: www.asylumresearch.com The AFM/SPM technology leader will demonstrate the Cypher™ AFM, the world's fastest and highest resolution AFM, combining the accuracy/control of closed loop and power of atomic resolution for the most accurate images and measurements—with automated laser alignment, high-speed AC imaging with small cantilevers, integrated acoustic/vibration isolation, and thermal control for unprecedented stability. Also featured is the versatile MFP-3D™, a closed loop AFM for large/small samples, with top/bottom view and many environmental accessories, and the MFP-3D-BIO™, for seamless optical and AFM integration. Ask us about the new Nano-mechPro™ Suite of tools for more techniques to reveal nanomechanical properties of diverse materials. **809**

**Avantes, Inc.**, 9769 W 119th Dr., Suite 4, Broomfield, CO 80021, 3034108668, fax: 303-410-8669, Internet: avantes.com Avantes is a leader in field of fiber optic spectroscopy offering a range of spectrometers, light sources, and fiber optics to support measurements in the range from 190-2500 nm. With an installed base of over 10,000 systems throughout the world and 17 years of experience in fiber optic spectroscopy, Avantes is equipped to meet the challenges presented by applications facing our customers. Avantes instruments and system configurations support fluorescence, UV/VIS absorbance, reflectometry/thin film metrology, LIBS, Raman, UV/VIS and NIR radiometry, optical emission spectroscopy and many other spectroscopic techniques. **528**

**B&W Tek, Inc.**, 19 Shea Way, Suite 301, Newark, DE 19713, 302-368-7824, fax: 302-368-7830, e-mail:info@bwtek.com, Internet: www.bwtek.com B&W Tek, Inc. is an advanced instrumentation company producing optical spectroscopy, laser instrumentation and portable/lab grade Raman systems. We provide custom product design, development, and manufacturing for biomedical, physical, chemical, and research communities. Our commitment to innovating solutions makes B&W Tek, Inc. a leader in Raman Spectrometer sales worldwide. **1604**

**BADEN-WURTEMBERG INTERNATIONAL**, Haus der Wirtschaft, Willi-Bleicher-Str. 19, Stuttgart, Germany 70174, Internet: www.bw-i.de Baden-Wurtemberg, the German Southwest, is the most innovative region in Europe, particularly dedicated to science and education. A share of 4.8% of the State's GDP is invested in research and development – more than in the most countries all around the world. As a result, Baden-Wurtemberg offers the highest density of research institutions and universities in Germany. Visit our booth to learn about academic career opportunities in Germany. Partner at our booth is DR. KNOELL CONSULT, a full-service provider in the area of Regulatory Affairs, Product Safety and Consulting in the following sectors: Agrochemicals, Biocides, Chemicals and Pharmaceuticals. **537**

**Baseline Service LLC**, 9 Easy Street, Suite 9E, Bridgewater, NJ 08805, 609-658-1895, Internet: www.baselineservice.com **202**

**BASF - The Chemical Company**, 100 Park Avenue, Florham Park, NJ 07932, 973-245-7537, fax: 973-245-5833, e-mail:janet.johnson@basf.com, Internet: www.basf.com, Sales Contact: Richard Jacobinas BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. We combine economic success, social responsibility and environmental protection. Through science and innovation we enable our customers in almost all industries to meet the current and future needs of society. Our products and system solutions contribute to conserving resources, ensuring healthy food and nutrition and helping to improve the quality of life. We create chemistry for a sustainable future. **1306**

**BASi**, 2701 Kent Ave., West Lafayette, IN 47906, 765-497-8458, fax: 764-497-1102, e-mail:basii@bioanalytical.com, Internet: www.BASi.com BASi is a pioneer in the development and manufacture of unique instruments for electrochemistry and liquid chromatography, serving academia and industry. Primary is the pc-controlled Epsilon, available in several configurations, including a 4-channel potentiostat for use as an EC detector for LC and a single-channel potentiostat/galvanostat ideal for cyclic voltammetry and other EC techniques. BASi also has a substantial contract research organization serving the pharmaceutical industry. **1620**

**Beijing Laviana Pharmatech Co., Ltd.**, 29 Life Park Rd., E301, Changping Dist., Beijing 102206, China, 86 10 80729275, Internet: www.lavianacorp.com, Sales Contact: Tiandong Suo, General Manager Laviana offers chemical development and manufacture services for global pharmaceutical, material science, and agricultural industry from its 20,000 sq state-of-the-art R&D center and 150,000 sq Pilot Plant in China. Laviana has a proven track record and an established service system. Our services include discovery chemistry, process R&D, custom synthesis, analytical chemistry, and manufacture. Laviana is committed to provide cost-effective and value-added solution to help expedite the chemical development of our world-wide partners. **532**

**Beijing Mikrouna Mech. Tech. Co., Ltd.**, A-6B Haitong Building, C3 Nanlishi Rd., Xicheng District, Beijing, 100037, China, +86 10 68588245/677, fax: +86 10 68587629, e-mail:sales@mikrouna.com, Internet: www.mikrouna.com, Sales Contact: Sam Cai, Marketing Manager Mikrouna basic products include Glove Box and Gas Purification System, which takes airtight circulation purification principle, apply the state of art technology, assemble components from world well-known supplier to guarantee rapid removing and maintaining of H2O and O2 to less than 1ppm. The other products integrated with glove box include Vacuum Deposition System, Vacuum Furnace, Vacuum Sublimation Equipment, Li-Ion Battery Production Line, etc. **614**

**Beijing Synthware Glass Inc.**, Xingshou Industrial Area of Beijing, Changping Dist., China Beijing, "Synthware Glass" was founded in 1992 as a scientific laboratory glassware manufacturing company. Over the past twenty years we have become a respected supplier to over 2500 universities, pharmaceutical companies and research laboratories worldwide. We currently design and manufacture more than 2,000 different products(as shown in the Contents) in order to meet our clients' requirements. Our products provide the highest quality as we use Schott Duran, Simax and BGIF borosilicate 3.3 tubing, and manufacture strictly according to the ASTM Standards. Our new modern manufacturing facility is staffed with 150 skilled technicians operating under the 5S environment and ERP System. Our factory is equipped with advanced automatic tooling machines, CNC Glass Lathes and CNC Machining Lathes from Germany and the United States. In the aspect of management, we have adopted a new management system and talent-oriented ideology. Our goal is to provide the highest quality, lowest cost and best customer service in the industry. **1517**

**Bentham Sciences Publishers Ltd.**, 833 S. Wood Street, Room 539, Chicago, IL 60612, 312-413-5867, fax: 312-996-7107, e-mail:morrissy@bentham.org, Internet: www.bentham.org **1812**

**Berghof/America**, 3773 NW 126th Avenue, Building 1, Coral Springs, FL 33065, 800-544-5004, fax: 954-344-2008, Internet: www.berghofusa.com, Sales Contact: Damarys Fajardo Acid Purification Systems with all Fluoropolymer wetted parts; economical and simple to operate. High Pressure Reaction Vessels with complete fluoropolymer vessel liners, including inside of vessel cap. Fluoropolymer Microwave Digestion Vessels with pressure controlled venting system, for small sample prep in an acid resistant, non-contaminating vessel. Fluoropolymer: Labware, Bottles, Storage Containers, Valves, Fittings, Stirrers, Sleeves, Gas and Liquid Sampling Bags, Cap Liners, Adapters, Filters, Tubing, Sheet, Rod, and Film. **1629**

**Biolin Scientific**, 514 Progress Drive, Suite G, Linthicum Heights, MD, United States 21090, 877-773-6730, fax: 866-415-8164, Internet: www.biolinscientific.com **1112**

**BioLogic USA**, 9050 Executive Park Dr., Suite 105C, Knoxville, TN, United States 37923, Internet: www.bio-logic.us Bio-Logic USA is showing the EC-LAB electrochemical instruments product line used for electro-analytical research and electrochemical sensor development. A full line of electrochemical accessories, cells and electrodes is also available. The SP-300 and SP-200 introduce a powerful new generation of potentiostats with the widest range of specifications available with  $\pm 48V$ , 1A to 1 pA and up to 7 MHz EIS. An additional product line based on state-of-the-art stopped/quench flow mixing technology and spectroscopy will be displayed. These products are ideal for rapid kinetics measurements in chemistry/biology. The modularity of all Bio-Logic instruments allows additional capability and techniques to be easily added **1239**

**Biotage**, 10430 Harris Oaks Blvd, Suite C, Charlotte, NC 28269, 704 654 4900, fax: 704 654 4917, Internet: www.biotage.com Biotage is a leading global supplier of instruments and consumables for medicinal chemistry. We are also a well-established supplier of products in analytical chemistry and peptide chemistry. Biotage products range from discovery through clinical trials and large-scale productions. We offer application expertise and personal customer support, customizing solutions to meet the needs of customers. Biotage continues to provide new and innovative tools to meet today's research and development challenges. **1427**

**Boron Molecular**, PO Box 12592, Research Triangle Park, NC 27709, 919-981-4441, fax: 919-981-4442, e-mail:sales@boronmolecular-usa.com, Internet: www.boronmolecular.com **1217**

**BrandTech Scientific**, 11 Bokum Road, Essex, CT 06426, 860-767-2562, fax: 860-767-2563, Internet: [www.brandtech.com](http://www.brandtech.com) BrandTech Scientific supplies a complete line of laboratory tools and equipment for Chemistry and Environmental laboratories including: BRAND® liquid handling instruments; VACUUBRAND® oil free, chemistry-resistant vacuum pumps; VITLAB® volumetric and plastic labware; and BOCHEM stainless steel laboratory support jacks. Featured products include Dispensette® bottle-top dispensers; Titrette® bottle-top burette; VACUUBRAND® Vario™ vacuum systems for automated control of chemistry applications; Transferpette® S pipettes; HandyStep® Repeating pipettes; accu-jet® pro motorized pipette controllers; disposable Cuvettes; VITLAB® PFA plastics for trace analysis and Class A Volumetric plastic labware. **411**

**Brookhaven Instruments Corp.**, 750 Blue Point Road, Holtsville, NY 11742-1832, 631-758-3200, fax: 631-758-3255, e-mail: [info@brookhaveninstruments.com](mailto:info@brookhaveninstruments.com), Internet: [www.BrookhavenInstruments.com](http://www.BrookhavenInstruments.com) **737**

**Brooks/Cole Cengage Learning**, 20 Davis Drive, Belmont, CA 94002, 650-595-2350, Internet: [www.cengage.com](http://www.cengage.com) **1400**

**Bruker**, 19 Fortune Drive, Billerica, MA 01821, 888-4BRUKER, e-mail: [info@bruker.com](mailto:info@bruker.com), Internet: [www.bruker.com](http://www.bruker.com) Welcome to the world's most comprehensive range of scientific instrumentation available under one brand - a brand synonymous with excellence, innovation and quality. Bruker offers a wide range of applications for molecular characterization in chemistry and life sciences as well as solutions for materials research and nanotechnology. In particular, the Bruker series of compact, powerful, robust, yet easy-to-use analytical instruments are ideal for use by both students and experts in academic settings and also enable laboratories to incorporate new experiments in chemical education. Visit us at [www.bruker.com/academics](http://www.bruker.com/academics) to learn more about our technologies and solutions. **1014,1015**

**Buchi AG**, Gschwaderstrasse 12, Uster CH-8610, Switzerland, +41 (0)44 905 51, fax: +41 (0)44 905 51 22, e-mail: [buchi@buchiglas.com](mailto:buchi@buchiglas.com), Internet: [www.buchiglas.com](http://www.buchiglas.com), Sales Contact: Rudi Zimmermann, sales & marketing Reactor systems & Pilot Plants - buchiglasuster • Glass-, glass lined steel multipurpose reactor systems for kilolabs and Pilot Plants -90°C to +200°C, 5 - 250 liters, vacuum applications - with unique buchiflex ball-socket glass connection • Reactor systems for (high) pressure reactions in chemical research with interchangeable glass - or corrosion resistant metal reactors: -90°C to +350°C, 350 bar (5000 psi): also completely metal free solutions available • Hydrogenation system bpc with unique volumetric dosing featuring high reproducibility, accuracy and safety • Engineered, tailor-made solutions on request **326**

**Buchi Corp.**, 19 Lukens Drive, Suite 400, New Castle, DE 19720, 302-652-3000, fax: 302-652-8777, e-mail: [us-sales@buchi.com](mailto:us-sales@buchi.com), Internet: [www.mybuchi.com](http://www.mybuchi.com) For over 50 years, Buchi has been known as the market leader, inventor and innovator of lab instruments based on Evaporation and Vacuum technologies, and as the supplier of the Rotavapor® rotary evaporators worldwide. In addition, BUCHI Corporation is the North American provider of spray dryers for pharmaceutical and food agglomeration and microencapsulation, modular flash chromatography systems, melting point apparatus, Kjeldahl and solvent extraction equipment for environmental and food analysis, NIR spectroscopy instruments for pharmaceutical and food Quality Control, and other related laboratory equipment. Headquartered in New Castle, Delaware, BUCHI Corporation is an affiliate of BUCHI Labortechnik AG (Flawil, Switzerland). **1010**

**Buck Scientific**, 58 Fort Point Street, East Norwalk, CT 06855, 800-562-5566, fax: 203-853-0256, e-mail: [sales@bucksci.com](mailto:sales@bucksci.com), Internet: [www.bucksci.com](http://www.bucksci.com) **1710**

**C/D/N Isotopes**, 88 Leacock St., Pointe-Claire, QC, Canada H9R 1H1, 800-565-4696, fax: 514-697-6148, e-mail: [info@cdnisotopes.com](mailto:info@cdnisotopes.com), Internet: [www.cdnisotopes.com](http://www.cdnisotopes.com) C/D/N Isotopes provides its customers with superior quality deuterated compounds at very competitive prices and exceptional service. Researchers in all branches of science and medicine depend on us for their deuterium labelled compounds. We currently have more than 3000 products in stock. Most new products are the direct result of inquiries from our customers. Our extensive Custom Synthesis capabilities allow us to develop the products that our customers need. **904**

**CAChe Research LLC**, 13690 SW Otter Lane, Beaverton, OR 97008, 503-830-2772, e-mail: [info@cacheresearch.com](mailto:info@cacheresearch.com), Internet: [www.CACheResearch.com](http://www.CACheResearch.com) Quantum chemistry, statistical thermodynamics tools for prediction of physical, chemical properties: COSMOtherm predicts boiling points, vapor pressures, solubilities, ADME properties, viscosities, partition coefficients, phase equilibria, phase diagrams, azeotropes, reaction thermodynamics, activity coefficients, etc. of pure compounds, ionic liquids, and mixtures. COSMOmic models Micelles, biomembranes. CeSAR, Caddie next-generation modeling, ParaSurf calculates electronic properties on molecular surfaces for 3D-QSAR, ligand docking, reactivity prediction P450 drug metabolism, etc. TURBOMOLE DFT is designed for speed, robustness, for large molecules and condensed phase simulation. MOPAC2009, most widely used semiempirical quantum chemistry package, includes all elements PM6 method and Mozyme giant molecule **1534**

**CAS**, 2540 Orlentangy River Road, Columbus, OH 43210, 614-447-3600, fax: 614-447-3713, e-mail: [help@cas.org](mailto:help@cas.org), Internet: [www.cas.org](http://www.cas.org) Chemical Abstracts Service (CAS) is the world's authority for chemical information. Visit the ACS booth and see how CAS' SciFinder and STN services also meet your research and patent information needs in the health and medical sciences. We'll demonstrate the latest enhancements to SciFinder® relevant to chemistry and life sciences, including bioactivity and protein target indicators, along with new features like individual property searching. And we'll show you how CAS chemical content embraces many allied disciplines, including the biosciences. Theater presentations will occur throughout the event as well as in-booth promotions where you have the chance to win great prizes! **827**

**CEM Corp.**, PO Box 200, Matthews, NC 28106, 704-821-7015, fax: 704-821-7894, Internet: [www.cem.com](http://www.cem.com) **509**

**ChemAxon Ltd.**, Záhony utca 7, Budapest, Hungary 1031, 361-453-2660, Internet: <http://www.chemaxon.com/> Who are we? ChemAxon is a leading cheminformatics company, with a headquarter in Budapest, Hungary. We provide chemical software development platforms mostly for the biotechnology and pharmaceutical industries. Why do our users fancy us? Because we are quick in support, we develop our tools together with our users; and because we support academic research and teaching like no one else in the industry! What are we good for? Well, among many, you can draw/view chemical structures with Marvin Suite; manage and search your compounds with JChem tools; check your database in Excel, SharePoint or Instant JChem; screen, fragment, cluster, Markush. **1305**

**ChemBridge Corp.**, 11199 Sorrento Valley Rd., Suite 206, San Diego, CA 92121, 858-451-7400, fax: 858-451-7401, e-mail: [sales@chembridge.com](mailto:sales@chembridge.com), Internet: [www.chembridge.com](http://www.chembridge.com) ChemBridge Corporation is a global provider of enabling chemistry products and contract research services for small molecule drug discovery.

ChemBridge's extensive portfolio includes over 900,000 diverse and target-focused screening compounds, 14,000 chemical building blocks, our Hit2Lead.com on-line chemical store, and high-end, research-intensive custom library and synthetic/medicinal chemistry services. ChemBridge's research products and services are supported by an experienced, dedicated and friendly customer service and project management team at our San Diego headquarters and by ChemBridge's impeccable, 18-year track record of innovation, quality and deliverability. **416**

**Chemglass Life Sciences**, 3800 North Mill Road, Vineland, NJ 08360, 800-843-1794, fax: 800-922-4361, Internet: [www.cglifesciences.com](http://www.cglifesciences.com) In addition to our wide selection of glassware and equipment for chemistry we have begun adding products for chromatography and cell culture keeping us on the forefront of scientific innovation. CGLS fabricates standard glassware items and components as well as custom glassware. We have the capability to produce not only the most complex glass apparatus, but also intricate electronic equipment and customized machined components. Products include process reactors from 10L-100L, benchtop reactors from 100mL-5L. Also on display: Huber Unistat Circulators, Chromatography vials and closures, NMR Tubes, OptiTherm Blocks, Pie-Blocks-Reaction blocks, Pressure Vessels, Volumetric Flasks, Schlenk Glassware/Manifolds, Rotary and Fritted Glassware. **1200**

**Chemistry Central**, Floor 6, 236 Gray's Inn Road, London, United Kingdom WC1X 8HB, 44-20-3192-2000, fax: 44-20-3192-2010, e-mail: [info@chemistrycentral.com](mailto:info@chemistrycentral.com), Internet: [www.chemistrycentral.com](http://www.chemistrycentral.com) Chemistry Central is the open access chemistry publisher, part of Springer Science+Business Media, committed to the free widespread dissemination of chemical research. All articles published by Chemistry Central are peer-reviewed and freely available online. Our journals include Chemistry Central Journal, Journal of Cheminformatics, Geochemical Transactions and Journal of Systems Chemistry. For more information please visit Chemistry Central at booth #412. **412**

**Chemistry Related Societies in Japan**, 1-9-18, Kaigan, Minato-ku, Tokyo, Japan 105-0022, 81-3-3292-6165, fax: 81-3-3292-6319, Internet: [www.society.sakura.ne.jp/chem/](http://www.society.sakura.ne.jp/chem/) We (9 Japanese Societies) have selected and collated for you 11 excellent chemistry journals, culled from various publications by leading learned societies in Japan. These are fascinating resource materials that cover a wide range of basic and applied research. We believe that these extracts of Japanese academic knowledge can help open new window towards the achievement of higher goals in the field of chemistry research and study. Please check the detailed Society information through URL [www.society.sakura.ne.jp/chem/](http://www.society.sakura.ne.jp/chem/) **1212**

**ChemPacific Corporation**, 6200 Freeport Center, Baltimore, MD 21224, 410-633-5771, fax: 410-633-5808, Internet: [www.chempacific.com](http://www.chempacific.com) Founded in 1995 and headquartered in Baltimore, Maryland, ChemPacific Corporation has become a leader in Specialty Chemical, Bulk Chemical, Intermediate, and API production. ChemPacific is backed by strong technical and administrative teams driven to provide first class products and service to customers. Our core competency is based on an organic chemistry platform as well as scale-up technology. Production capabilities range from a few milligrams to metric tons meeting non-GMP, cGMP and Specialty Chemical industry requirements. ChemPacific has developed unique high performance chemicals for major industry leaders, enabling breakthroughs in Pharmaceutical, Biotech, Specialty Polymers, Agrochemical and Specialty Chemical industries. **1618**

**Chemrus Inc.**, P.O. Box 920524, Needham, MA 02492, Chemrus develops products in the area of chemical and biological filtration and separa-

tions. Chemrus provides a unique disposable filtering funnel system for solid-liquid separation used in chemistry and biological laboratories. The system consists of a disposable polymer-structured filter funnel, a glass vacuum adapter, and a flask/vial. **1532**

**CombiPhos Catalysts, Inc.**, P.O. Box 220, Princeton, NJ 08542-0220, 609-587-6500, fax: 609-587-6570, e-mail: info@combiPhos.com, Internet: <http://www.combiPhos.com> CombiPhos Catalysts, Inc. is the sole provider of highly active, air- and moisture-stable cross-coupling catalysts (POPd, POPd1, POPd2, POPd3, POPd4, POPd5, POPd6, POPd7, PXPd, PXPd2, PXPd2-Br, PXPd3, PXPd4, PXPd6, PXPd7, CombiPhos-Pd6, and CombiPhos-Kit), that have been used in over 800 pharmaceutical, agrochemical, and chemical companies worldwide since 2002. CombiPhos Catalysts, Inc. is the provider of novel chemical intermediates (gram to kg scale) including derivatives of pyridine-2-boronic acids, pyridine-4-boronic acids, thiazole-4-boronic acids, thiazole-5-boronic acids, pyrimidine-5-boronic acids, pyrazine-2-boronic acids, and pyridazine-3-boronic acids via catalytic transformations. CombiPhos Catalysts, Inc. is the provider of novel Deutero-Boronic Acids/Esters, and advanced Deutero-Intermediates for pharmaceutical applications. CombiPhos Catalysts, Inc. is also developing new, highly active, air and moisture stable chiral/achiral catalysts. **914**

**CONFLEX Corp.**, P.O. Box 131027, Carlsbad, CA 92013, 760-930-9277, fax: 509-692-4541, e-mail: info@conflex.us, Internet: [www.conflex.us](http://www.conflex.us), Sales Contact: Daniel Reid, Director of Sales CONFLEX 7 performs fast, exhaustive conformation searchin and analysis critical to drug discovery and chemical engineering. Determine conformations of large molecules with Parallel CONFLEX and utilize the BARISTA visualization and analysis platform to drill down into CONFLEX output. Also performs crystal analysis and homology modeling. Available only from Conflex Corporation are the latest, advanced versions of CONFLEX and Parallel CONFLEX. **1711**

**Continuum Inc.**, 3150 Central Expressway, Santa Clara, CA 95051, United States, 408-588-4370, Internet: [www.continuumlasers.com](http://www.continuumlasers.com) **204**

**Corning Inc.**, 836 North St., Building 300, Tewksbury, MA 01876, e-mail: clswebmail@corning.com, Internet: [www.corning.com/lifesciences](http://www.corning.com/lifesciences) Corning Life Sciences, the makers of PYREX® laboratory glass, Corning® hot plates, stirrers, and LSE™ products, is a major manufacturer of glass and plastic laboratory products for chemistry, cell culture, drug discovery, liquid handling, and filtration applications. We are pleased to announce the introduction of a new line of reusable plastic liquid handling and volumetric products for the Fall 2012 ACS Show. **327**

**CP Lab Safety**, 14 Commercial Blvd., Suite 113, Novato, CA 94949, 415-883-2600, fax: 415-532-1662, e-mail: carel@cplabsafety.com, Internet: [www.cplabsafety.com](http://www.cplabsafety.com) Manufacturer of ECO Funnels™. Chromatography Funnels, Secondary Containers and Solid Waste Containers. ECO Funnels reduce harmful emissions and help prevent fire while solving the open waste container problem. Made of HDPE with a gasket in the lid, sturdy hinge and latch. Unique design will prevent container over-filling. Available with variety of screw cap sizes to fit common waste containers. Customize with HPLC adapters. We guarantee our ECO Funnel products! Other safety products include: cabinets, cans, eyewear, gloves, coated glass bottles, glassware, plastic bottles, carboys and drums, pumps, HPLC port caps. See us for your lab safety needs! **1304**

**Cresset BioMolecular Discovery Ltd.**, BioPark Hertfordshire, Broadwater Road, Welwyn Garden City, Herts, United Kingdom AL7 3AX, +44 (0) 1707 356120, fax: +44 (0) 1707 356118, Internet: [www.cresset-group.com](http://www.cresset-group.com) Cresset provides software and consulting services to the life sciences industry, particularly in the area of drug

discovery. Key customers include medicinal and computational chemists, research managers and academic researchers who we help provide unique insight into the activity, properties and interactions of molecules, without the limitations of 2D structure. **409**

**Crystallographic Resources Inc.**, 11942 Sara Ann Dr., Dewitt, MI, United States 48820, 517-643-0619, fax: 517-353-1793, e-mail: xrastaples@hotmail.com, Internet: [www.crystalspec.com](http://www.crystalspec.com) Crystallographic Resources, Inc. grows and analyzes samples of materials submitted by its clients to determine the three dimensional structure of molecules from single crystal samples. **634**

**CSCS Inc.**, 59 Greenhill Street, West Warwick, RI 02893, United States, 401-825-7920, fax: 401-825-7923, Internet: [www.cscscorp.org](http://www.cscscorp.org) CSCS is a CMO/CRO performance and fine chemical company headquartered in West Warwick, RI providing solutions and services to the pharmaceutical, biotechnology, and fine chemical industries. Our production/R&D laboratory and production facility specializes in micro reactor chemistry for reactions as well as traditional chemistry. The facility is also registered for DEA schedules I-V for analytical lab and II-V for R&D both under GMP conditions. Discovery, chemical and analytical development, regulatory services such as auditing, and production/product problem solving, are core services we offer. CSCS experienced team is with you every step of the way ensuring your project requirements are achieved. **1536**

**D-Poly USA, Inc.**, 4551 Route 42, Ste. #7, Turnersville, NJ 08012, United States, 973-337-3295, Internet: [www.d-poly.ch](http://www.d-poly.ch) **218**

**DeltaNu, Intevac Photonics**, 3560 Bassett Street, Santa Clara, CA 95054, 408-496-2275, e-mail: sales@deltanu.com, Internet: [www.intevac.com/intevacphotonics/deltanu](http://www.intevac.com/intevacphotonics/deltanu) DeltaNu® manufactures handheld and laboratory Raman spectrometers for rapid and non-destructive material identification. RapidID, ReporteR and PharmaID handheld systems allow manufacturers to improve product quality through increased testing and reduction in laboratory costs, ensuring a fast and ongoing return on investment. Designed for the pharmaceutical industry, the PharmaID is equipped with Pass/Fail capabilities, and enables users to be 21 CFR Part 11 compliant. Ideal for teaching and research, Advantage bench top systems come in a variety of wavelengths, are easy to operate, and provide superior performance. DeltaNu is a business unit of Intevac Photonics, Inc. and is ISO 9001:2008 certified. **309**

**Dotmatics Limited**, 11300 Sorrento Valley Rd, Suite 115, San Diego, CA, United States 92121, 619-419-2808, fax: 858-852-7903, e-mail: shikha.obrien@dotmatics.com, Internet: [www.dotmatics.com](http://www.dotmatics.com) Dotmatics is a global informatics solution and service provider. Dotmatics' comprehensive solutions include tools for knowledge management, data storage, enterprise querying and reporting, and data analysis and visualization. Agile development guarantees a state-of-the-art high quality technology platform that adapts to the ever changing needs of our customers. **1708**

**Eastern Analytical Symposium**, PO Box 185, Spring Lake, NJ 07762, 732-449-2280, fax: 732-612-1123, e-mail: askeas@eas.org, Internet: [www.eas.org](http://www.eas.org) Join the thousands of people who will attend the annual Eastern Analytical Symposium and Exposition on November 12-15, 2012, in Somerset, NJ. The EAS educates and informs with a strong technical program of the latest research presented in invited and contributed oral and poster sessions; presentations of prestigious outstanding achievement awards; and numerous short courses emphasizing practical and economical problem-solving topics covering various areas of Analytical Chemistry. In addition, hundreds of exhibitors display state-of-the-art instrumentation, equipment, products,

and services at the exposition. An employment area offers Analytical Chemists job opportunities. This is an event that should not be missed! **207**

**eDAQ, Inc.**, 1485 Tuskegee Place, Suite E, Colorado Springs, CO, United States 80915, 719-576-7000, 888-965-6086, fax: 719-576-3971, Internet: [www.edaq.com](http://www.edaq.com) eDAQ manufactures data recording solutions for electrochemistry, impedance spectroscopy, chromatography, capillary electrophoresis, flow analysis and general laboratory recording (pH, temperature, conductivity, dissolved O<sub>2</sub>, Nitric Oxide, and biosensor applications). Potentiostat system serves multiple duty as galvanostat, ZR amps, or Hi Z amps. Electrochemistry systems offer over 33 electrochemical techniques using our disk electrodes; easy use, high resolution, no programming required. Contactless conductivity detection is available for CE, Ion chromatography, etc. Microchip electrophoresis systems are available with high precision voltage sequencer. Direct to computer USB amplifiers will stream data into National Instruments cards or even direct to excel spreadsheets. **906**

**Editage/Cactus Communications, Inc.**, 1 Neshaminy Interplex, Suite 206, Trevose, PA, United States 19053, 267-332-0051, fax: 267-332-0052, Internet: [www.editage.com](http://www.editage.com) Editage, a division of Cactus Communications, Inc., has been a leading provider of English-language editing services since 2002. We offer academic editorial services to authors worldwide, with extensive experience helping English as second language (ESL) authors. We offer Standard Proofreading, Advanced Editing, and Premium Editing as well as author support packages. We have edited 135,000+ documents for more than 40,000 authors worldwide. Our writers and editors have subject area specialization, and many are certified by the Board of Editors in the Life Sciences (BELS). Visit us at [www.editage.com](http://www.editage.com) **1330**

**ELGA LabWater**, 5 Earl Court, Woodridge, IL 60517, United States, 877-315-3542, fax: 630-910-4798, e-mail: dina.brown@veoliawater.com, Internet: [www.elgalabwater.com](http://www.elgalabwater.com) **1818**

**Elsevier Inc.**, 360 Park Avenue South, New York, NY 10010, 212-633-3756, fax: 212-633-3112, e-mail: k.brown@elsevier.com, Internet: [www.elsevier.com](http://www.elsevier.com) Elsevier is a leading publisher and provider of search and discovery tools in Chemistry, Chemical Engineering, and related areas. We publish over 125 journal titles, including prestigious scientific publications, and numerous books and e-books, including titles under the Academic Press imprint. With innovative web-based products such as ScienceDirect, SciVerse, Reaxys, Hazmat Navigator and SciVal, we continue to refine our portfolio to serve the needs of academics, researchers, and practitioners worldwide. Visit our booth to see our new and best-selling titles, learn about the latest Impact Factors of our high quality journals, and discover how our online products can improve your research. **618**

**EMD Millipore**, 290 Concord Road, Billerica, MA, United States 01821, 978-715-1273, fax: 978-715-1393, e-mail: diane.naquin@merckgroup.com, Internet: [www.emd-millipore.com](http://www.emd-millipore.com) EMD Millipore is the Life Science division of Merck KGaA of Germany and offers a broad range of innovative, performance products, services and business relationships that enable our customers' success in research, development and production of biotech and pharmaceutical drug therapies. Through dedicated collaboration on new scientific and engineering insights, and as one of the top three R&D investors in the Life Science Tools industry, EMD Millipore serves as a strategic partner to customers and helps advance the promise of life science. EMD Millipore is known as Merck Millipore outside of the U.S. and Canada. **1531**

**Emeryville Pharmaceutical Services**, 5980 Horton St., Suite 575, Emeryville, CA, United States 94608, (510)899-8862, fax: (510)280-8379, Inter-

net: [www.emerypharmaservices.com](http://www.emerypharmaservices.com) Emeryville Pharmaceutical Services offers NMR (1D, 2D, VT), LCMS (PDA/ELSD/ESI/APCI), and microbiological (MIC/MBC/MFC, biofilm, resistance profiling, microscopy, and cytotoxicity) analytical services. **1004**

**Erlab, Inc.**, 388 Newburyport Turnpike, Rowley, MA 01969, 978-948-2216, fax: 978-948-3354, e-mail: [jgriffin@erlab.com](mailto:jgriffin@erlab.com), Internet: [www.erlab.com](http://www.erlab.com) Company Information Offering the greatest safety and innovation at the lowest possible cost, Captair filtration products showcased on the booth will include the latest generation Captair Flex Ductless filtering fume hoods with increased safety features and greater adaptability. We will also feature our proven line of high quality chemical storage cabinets, powder weighing enclosures, RNA/DNA enclosures, environmental chambers and laminar flow hoods. Driven by innovation and striving to meet the latest customer requirements, we have been leading the way to provide safe and dependable energy saving filtration laboratory products since 1968. (Erlab Group) **408**

**Excellims Corp.**, 20 Main St., Acton, MA 01720, 978-264-1980, fax: 978-264-1981, e-mail: [info@excellims.com](mailto:info@excellims.com), Internet: [www.excellims.com](http://www.excellims.com) **414**

**Experience Philadelphia** Local companies within the hospitality industry, i.e., restaurants, attractions, shopping, etc. will present and showcase their offerings to attendees. **1635, 1637**

**Extrel CMS**, 575 Epsilon Drive, Pittsburgh, PA 15238, Internet: [www.extrel.com](http://www.extrel.com) Extrel is the world's leading manufacturer of Research and Process Mass Spectrometers, Residual Gas Analyzers (RGA's), Quadrupole Mass Spectrometry Systems and Components. We have been providing quadrupole mass spectrometry solutions to our Research and Industrial customers for over 45 years. Our instruments are known for their high performance, reliability and flexibility. We offer equipment for Basic Research, QA/QC Laboratories, Process Development and Process Control. Extrel's global customers receive the most comprehensive application, technical and onsite support in the industry. **627**

**Federal Bureau of Investigation**, 935 Pennsylvania Avenue NW, Washington, DC 20535, **1328**

**FIZ CHEMIE BERLIN**, Frankinst. 11, Berlin 10587 Germany, 49-30-39977-0, fax: 49-30-39977-132, Internet: [www.chemistry.de](http://www.chemistry.de), Sales Contact: Annette Prah, Marketing & Communication FIZ CHEMIE is a modern chemistry information company based in Berlin, Germany, with a long history dating back to 1830. Well established high quality chemical databases such as the ChemInform Reaction Library (CIRX) and Solid Phase Organic Reactions (SPORE) are its main contribution to provide both academia and industry with effective tools to deal with the ever growing flow of chemical information and to plan and optimize the synthesis of desired products. **329**

**Fox Chase Chemical Diversity Center, Inc.**, 3805 Old Easton Road, Doylestown, PA, United States 18902, 215-264-4287, Internet: [www.fc-dcdi.com/](http://www.fc-dcdi.com/) We specialize in medicinal chemistry, understanding the relation of structure to function in biomedical research, early stage drug discovery, probe library synthesis and target validation for academic and biotechnology company partners. Our laboratories in Doylestown, PA are fully-equipped to make libraries of new chemical entities, with the goal to create new patentable intellectual property for our collaboration partners. Our equipment infrastructure includes NMR, microwave, serial HPLC, LC/MS and Genovac technologies. Our staff has >100 years of experience in the major pharmaceutical industry, and employs modern methods of medicinal chemistry and structure based drug design. **1437**

**Frontier Scientific, Inc.**, P.O. Box 31, Logan, UT 84323, 801-588-0455, e-mail: [sales@frontiersci.com](mailto:sales@frontiersci.com), Internet: [www.frontiersci.com](http://www.frontiersci.com) Frontier Scientific Inc. (FSI) is a chemical developer and manufacturer providing custom research services to the industrial, pharmaceutical, biotechnology, government, and academic sectors. FSI specializes in the development of chemical compounds and processes related to:

- Boronic Acids, Trifluoroborates, & Other Coupling Compounds
- Coupling Catalysts
- Chemical Scaffolds & Building Blocks
- Porphyrins, Corroles, & Phthalocyanines
- Dendrons & Dendrimers

Focused on building blocks for small molecule drug discovery, SAR studies, and lead optimization, FSI provides standard catalog products ([www.frontiersci.com](http://www.frontiersci.com)) with quantities on-hand from the milligram to kilogram scale. Frontier Scientific: Pure and (not so) simple. **521**

**Galbraith Laboratories Inc.**, 2323 Sycamore Dr, Knoxville, TN 37921, 877-449-8797 toll free, fax: 865-546-7209, e-mail: [labinfo@galbraith.com](mailto:labinfo@galbraith.com), Internet: [www.galbraith.com](http://www.galbraith.com) Galbraith Laboratories is an independent contract analytical testing laboratory, specializing in physical and chemical analysis to trace levels since 1950. With 62 years of experience, Galbraith's services are provided from a base of technical, regulatory and industry-specific expertise. We provide services to all industry and test most sample types for the elements on the Periodic Table. Galbraith is a GLP/cGMP compliant laboratory, FDA registered, ISO 17025:2005 certified (see [www.galbraith.com/iso17025.pdf](http://www.galbraith.com/iso17025.pdf) for scope of services) and a Consumer Products Safety Commission Accredited Testing Laboratory. **1307**

**Gamry Instruments**, 734 Louis Drive, Warminster, PA 18974, 877-367-4267, fax: 215-682-9331, e-mail: [info@gamry.com](mailto:info@gamry.com), Internet: [www.gamry.com](http://www.gamry.com) Gamry Instruments, innovators in electrochemical instrumentation since 1989, offers a full line of high performance instruments, software and accessories. For research involving energy storage, corrosion, analytical electrochemistry, or sensors, we can help make the measurements you need. Visit the Gamry exhibit to see the latest in electrochemical instrumentation: the Interface 1000. We will also be showing our lineup of electrochemical cells, Reference family potentiostats, and demonstrating our full line of software including DigiElch 6 Electrochemical Simulation software and EIS300 impedance spectroscopy software. Come chat with us and let us put our electrochemical expertise to work for you. **506**

**Garland Science**, 711 Third Avenue, 8th Floor, New York, NY, United States 10017, 212-216-7849, fax: 212-947-3027, Internet: [www.garlandscience.com](http://www.garlandscience.com) Garland Science publishes textbooks and multimedia for the life sciences, biophysics, and chemistry, and have been producing educational content of the highest quality for nearly three decades. We are excited to publish *The Molecules of Life* by John Kuriyan, Boyana Konforti, and David Wemmer. Learn more about the book at [www.garlandscience.com/tmol](http://www.garlandscience.com/tmol). If you are interested in ordering a copy, use Promo Code FGL81 for a 30% discount. On the Garland Science website you can learn more about our books such as, *Molecular Biology of the Cell*, Fifth Edition by Alberts et al., and *Janeway's Immunobiology*, Eighth Edition by Murphy. **1237**

**Gaussian**, 340 Quinpiac Street, Building 40, Wallingford, CT 06492, 203-284-2501, fax: 203-284-2521, e-mail: [info@gaussian.com](mailto:info@gaussian.com), Internet: [www.gaussian.com](http://www.gaussian.com) Gaussian, Inc. is the world leader in electronic structure computational chemistry programs. The Gaussian series of programs is available on every major computing environment, from PCs to supercomputers, and it is currently used in a wide variety of industrial, governmental and academic research settings worldwide. Gaussian, Inc. will be demonstrating the latest versions of Gaussian and GaussView. **1229**

**Gelest, Inc.**, 11 East Steel Road, Morrisville, PA 19067, 215-547-1015, fax: 215-547-2484, Internet: [www.gelest.com](http://www.gelest.com) Gelest, Inc. is an innovator, manufacturer, and supplier of commercial and research quantities of over 3,000 organosilicon compounds, silicones, and metal-organic compounds and is committed to being a leader in the materials science marketplace, serving advanced technology markets through a customer-driven approach. The company encourages close relationships with its customers to develop application specific materials to meet the end user's specifications for performance and purity **415**

**GenTech Scientific, Inc.**, 23 Mill St., Arcade, NY 14009, 585-492-1068, fax: 585-492-0383, e-mail: [www.sales@gentechscientific.com](mailto:www.sales@gentechscientific.com), Internet: [www.GenTechScientific.com](http://www.GenTechScientific.com) GenTech Scientific sells scientific instruments to countries throughout the world, and its extensive service area encompasses the United States, Canada, Central America, South America and Europe. Reduce your costs for new and refurbished MS, GC & HPLC instruments, accessories, parts, service and training. All major manufacturers' equipment. GenTech Certified products are fully refurbished, tested & carry a One Year Warranty. With the largest inventory of hard to find parts, the lowest service rates and skilled technicians, we will reduce your service costs. Customized training at your location or at the GenTech Technical Institute. Send your equipment for repair. [www.gentechscientific.com](http://www.gentechscientific.com) **320**

**GHS Safety**, 3829 Forest Parkway, Wheatfield, NY 14120, United States, Internet: [www.GHSsafety.com](http://www.GHSsafety.com), Sales Contact: Bill James, GHS Compliance and Training materials for the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). **1628**

**Grace Davison Discovery Sciences**, 2051 Waukegan Road, Deerfield, IL 60015, 847-948-8600, fax: 847-948-1078, e-mail: [discoverysciences@grace.com](mailto:discoverysciences@grace.com), Internet: [www.discoverysciences.com](http://www.discoverysciences.com) Grace is a global provider of drug discovery solutions supporting pharmaceutical and biotech industries. Our range of solutions includes chromatographic media, flash and analytical chromatography equipment and consumables. Grace is currently the world's largest supplier of silica gel with a well-established global presence. Our diversity and reach enable us to be an effective partner to global pharmaceutical companies. In an ongoing effort to expand our solutions to the pharmaceutical industry, we continue to develop and acquire synergistic capabilities and emerging technologies. **908**

**Harrick Scientific**, 141 Tompkins Ave., 2nd Floor, P.O. Box 277, Pleasantville, NY 10570, 800-248-3847, fax: 914-747-7209, e-mail: [info@harricksci.com](mailto:info@harricksci.com), Internet: [www.harricksci.com](http://www.harricksci.com) Manufacturing a full line of spectroscopic accessories for transmission, specular reflection, diffuse reflection, and ATR for the UV/Vis, NIR, and Mid-IR. See the Video MVP, a Monolithic Diamond ATR accessory with built-in camera and our selection of temperature-controllable cells for transmission, diffuse reflection, ATR, and specular reflection. Featuring our VariGATR for monolayer determinations and our versatile family of fiber optic accessories, including the new Diamond Probe. **1205**

**Heidolph USA**, 1241 Jarvis Avenue, Elk Grove Village, IL 60007, 224-265-9600, Internet: [www.heidolphna.com](http://www.heidolphna.com) Heidolph North America, a subsidiary of Heidolph GmbH, is an organization focused on providing unparalleled sales and service support of high quality laboratory products to the North American scientific community. Heidolph NA sells, supports and services products such as Heidolph rotary evaporators, Tutt-nauer-Brinkmann sterilizers, Radleys synthesis tools and AirClean Systems ventilation solutions. Our corporate headquarters is based in the Chicago area providing dedicated customer service, shipping, logistics, technical support and sales management to the North American labo-

ratory equipment market. We believe in our "Research made easy" philosophy of prompt customer service of all Heidolph products and supported by our industry leading 3 year warranty. "From Life Science to Rocket Science, our products and expertise help support the top scientific minds in America" **427**

**HEL, Inc.**, 4 Princess Road, Suite 208, Lawrenceville, NJ 08648, 609-912-1551, fax: 609-912-1552, e-mail:sales@helgroup.com, Internet: www.helgroup.com Operating internationally, HEL specializes in research and pre-pilot scale chemical reactors and systems, providing both automated and manual tools for process R&D. While HEL's traditional customer base is in synthetic chemistry, products are available for medchem groups, bio processes, and emerging technologies, as well as university research. Our product line includes:

- HYDROGENATION & CATALYSIS TOOLS
- FLOW CHEMISTRY
- CRYSTALLIZATION AND PARTICLE CHARACTERIZATION
- PARALLEL PROCESS DEVELOPMENT
- SAFETY & CALORIMETRY
- BENCH & KILO SCALE REACTOR SYSTEMS
- BIO-REACTORS & FERMENTERS **431**

**Hellma USA, Inc.**, 80 Skyline Drive, Plainview, NY 11803, 516-939-0888, fax: 516-939-0555, e-mail:info@hellmausa.com, Internet: www.hellmausa.com Manufacturer of Hellma Photometer Cells and Accessories, Fiber Optic Immersion Probes, Photometric Calibration Standards (Liquid and Glass), Quartz Microplates, various types of Laser Optics. Expanded line of Process probes good to 35 bar, 300C. Unmatched selection of stock and custom Cells. Supplier: Heraeus Light Sources including Deuterium, Hollow Cathode, Photoionization, Spectral Line; Zeiss MMS/MCS/PGS/CGS Miniature Spectrometers covering 190-2200nm in combination; Tec5 electronics for display/readout of PDAs and CCDs. NEW-EST: TrayCell for analysis 0.7ul, Fiber Optic Reflection Probe. Custom developments for all products. **1527**

**Hidden Analytical Inc.**, 37699 Schoolcraft Road, Livonia, MI 48150, 734-542-6666, fax: 734-542-6030, e-mail:info@hiddeninc.com, Internet: www.HiddenAnalytical.com Hidden Analytical manufactures high performance quadrupole mass spectrometers for precision gas analysis, materials characterization and surface science applications. Showcasing systems for catalysis studies, reaction kinetics, residual and process gas analysis. For quantitative atmospheric pressure gas analysis the new, compact QGA system includes automated gas calibration for spectral deconvolution, sub-ppm detection and fast inlet technology for pulsed gas studies. Also featuring CatLab, a unique, integrated microreactor and mass spectrometer system for characterization and evaluation of catalysts or thermal studies of evolved species. For atmospheric gas studies the SPACI-MS quantifies intra-catalyst channel species transients and distributions with high temporal resolution. **1007**

**Hielscher USA, Inc.**, Ultrasound Technology, 19 Ford Rd., Ringwood, NJ 07456, 973-616-9136, fax: 973-616-9131, e-mail:usa@hielscher.com, Internet: www.hielscher.com Hielscher Ultrasonic is the leading supplier for innovative, high power ultrasonic devices. Typical applications include mixing, homogenization, emulsification, dispersion, deagglomeration, wet-milling, cell disruption & lysis, extraction and sono-chemistry. Hielscher's product range includes small lab devices, bench-top systems and industrial processors for full-commercial production, which can process up to truckloads per hour. All ultrasonic units are reliable, robust and built for 24/7 operation. www.hielscher.com info@hielscher.com **314**

**Hirschmann, Inc.**, 2700 Holloway Road, Bluegrass Industrial Park, Suite 104, Louisville, KY 40299, 520-240-0287, fax: 502-240-0394, e-mail:michele@hirschmann-inc.com, Internet: www.

hirschmann-inc.com, Sales Contact: Michele Fuqua, Sales Manager Hirschmann, Inc. offers unique, technologically advanced German engineered and competitively priced instruments like; ceramus@ a bottle top dispenser with extremely durable ceramic piston; pipetus@ the only rechargeable pipet controller with LCD and inductive charging stand; solarus@ a solar-powered manual digital burette; New opus@ programmable motorized dispenser or digital burette. As well as micro capillaries, chemically inert glass micro plates, and a line of highly accurate and precise volumetric flasks and pipets calibrated by automation and conveniently packaged. Contact Michele Fuqua for more information (502) 240-0287. Check out our NEW website at www.Hirschmann-Inc.com. **211**

**HORIBA Scientific**, 3880 Park Avenue, Edison, NJ 08820-3012, 732-494-8660, fax: 732-549-5125, e-mail:info.sci@horiba.com, Internet: www.horiba.com/scientific HORIBA Scientific is the global leader in Fluorescence, Raman, Particle and Elemental Analysis instruments. Our highest sensitivity and flexibility solutions include Fluorescence (steady state/lifetime), cathodoluminescence, GD-OES, ICP, Raman (macro/microcopy/fiber coupled), SPRI and C/S/O/N/H analysis systems. Our Particle Characterization products provide particle size/shape/surface area and zeta potential analysis. **1210**

**IKA Works, Inc.**, 2635 North Chase Pkwy, SE, Wilmington, NC 28405, 910-452-7059, fax: 910-452-7693, e-mail:rbilgc@ika.net, Internet: www.ika.net IKA@ Works celebrates 100 years as a global market leader for laboratory equipment, analytical and process technology. Magnetic stirrers, overhead stirrers, dispersers, shakers, mills, rotary evaporators, calorimeters, laboratory reactors and incubation shakers make up the laboratory and analytical equipment's portfolio. While the process technology section offers solutions for production scale stirring, mixing and kneading applications. The company is headquartered in Staufen, Germany with subsidiaries in USA, China, India, Malaysia and Japan. **1315, 1729, 1735**

**IMA Life**, 2175 Military Rd., Tanawanda, NY 14150, 716-695-6354, fax: 716-695-6367, e-mail:josephine.gentile@imalife.com, Internet: www.ima.it A global supplier of automated processing equipment for vials, ampoules and syringes. Equipment range includes rotary and linear washers, depyrogenation tunnels, liquid and powder fillers, freeze-dryers, loading/unloading systems, cappers and labelers. We provide solutions for laboratory, pilot and commercial processing needs. **1701**

**Indofine Chemical Co.**, 121 Stryker Lane, Hillsborough, NJ 08844, 908-359-6778, fax: 908-359-1179, e-mail:chemical@indofinechemical.com, Internet: www.indofinechemical.com INDOFINE, established in 1981, is committed to providing high quality rare organic molecules, biochemicals and natural products for the advancement of science. We provide custom synthesis, contract research and process development and toll manufacturing in the areas of Flavonoids, coumarins, acetophenones, benzophenones, chromones, fluoroorganics, heterocyclics and natural products for the pharmaceutical, agricultural and life science industries. We have also internally developed a portfolio of proprietary molecules including functionalized drugs and amino acids. We also provide FTE services. Please visit our new websites: tollmanufacturing.com, contractresearch.com, benzophenones.com, acetophenones.com and coumarins.com for more information. In addition, we are pleased to inform you of our sister company, Bezwada Biomedical, that has developed new technology platforms that include Controlled drug delivery from polymeric functionalized drugs, Nitric oxide and drug releasing Oligomers and Polymers and Amino Acid Polymers for Therapeutic and Biomedical Applications. To learn more about our technology please visit our website www.bezwadabiomedical.com **1321**

**InfoChem GmbH**, Landsberger Strasse 408, Munich, Germany 81241, 49-89-583002, fax: 49-89-5803839, e-mail:info@infochem.de, Internet: www.infochem.de InfoChem is a software company for cheminformatics, specialized in storage and retrieval of structure and reaction information. InfoChem's Chemistry Cartridge for Oracle (ICCartridge) constitutes a central part of our search and management technology. The reaction classification algorithm CLASSIFY is the most powerful tool available for structuring and linking large reaction databases. ICSynth is InfoChem's novel synthesis prediction tool. Through SPRESIweb users can access one of the largest structural and reaction databases worldwide containing over 8.7 million compounds and 4.1 million reactions. In addition, InfoChem is active in the field of automated extraction of chemical compounds from data and images. **1311**

**Int'l Centre for Diffraction Data**, 12 Campus Blvd., Newtown Square, PA 19073, 610-325-9814, fax: 610-325-9823, e-mail:info@icdd.com, Internet: www.icdd.com ICDD's material identification databases are designed for rapid materials identification and interfaced with diffractometers and data analysis systems of the world's leading software developers and manufacturers of X-ray equipment. The File is available in PDF-2 Release 2012 (250,182 entries); PDF-4+ 2012 (328,660 entries) featuring digitized patterns, molecular graphics and atomic parameters; PDF-4/Minerals 2012 (39,410 entries); and PDF-4/Organics 2013 (Over 470,000 entries). ICDD promotes the application of materials characterization methods by sponsoring the Denver X-ray Conference; its proceedings, Advances in X-ray Analysis and the journal, Powder Diffraction. **635**

**Integrated Chemistry Design, Inc.**, 3930 Stanford Drive, Oceanide, CA 92056, 858-361-3795, e-mail:mcjohnson@inchemdesign.com, Internet: www.chirys.com, Sales Contact: Catherine Johnson, CEO and President **1538**

**Interchim Inc.**, 1536 West 25th St., Suite 452, San Pedro, CA 90732, 800-560-8262, fax: 310-802-3877, e-mail:tkorman@interchiminc.com, Internet: www.interchiminc.com Interchim is a global company which manufactures chromatography products for purification, analytical and sample preparation. The column product range is comprised of Flash, Prep, SPE, UPLC, and HPLC. Instruments for purification include the first Flash system to withstand pressures of 435 psi / 30 bar. The company has introduced high efficiency Flash Cartridges which run three times faster than conventional columns. Flash columns are available in 30 different bonded phases for normal and reverse phase, ion-exchange and chiral chromatography. The company continues to introduce innovative products to support the demands of speed and efficiency for discovery and analytical chemists. **1614**

**International Atomic Energy Agency/BNL**, Brookhaven National Laboratory, Building 197C, Upton, NY 11973, United States, 631-344-2380, fax: 631-344-5344, e-mail:tcollins@bnl.gov, Internet: www.bnl.gov/ispo, Sales Contact: Tanya Collins, Staffing Specialist The IAEA is a science and technology-based organization headquartered in Vienna, Austria that serves as the global focal point for nuclear cooperation and nonproliferation. Brookhaven National Laboratory's (BNL) International Safeguards Project Office recruits for the DOE and the International Atomic Energy Agency (IAEA). The IAEA needs nuclear engineers, electronic specialists, software developers and intelligence experts. **221**

**Ivium Technologies**, 961687 Gateway Blvd., Suite 201-D, Fernandina Beach, FL 32034, United States, 904-310-9060, e-mail:info@ivium.us, Internet: www.ivium.com, Sales Contact: Pete Peterson, Director of Sales and Marketing **1631**

**J-KEM Scientific**, 6970 Olive Blvd., St. Louis, MO 63130, 800-827-4849, fax: 314-863-6070, Internet: www.jkem.com New Multi-step Continuous Flow Reactor runs up to 100 queued reac-

tions in scouting mode, and makes kilograms of material in continuous synthesis mode. Makes and quenches reactive intermediates in two step, continuous, automated reactions. Digital temperature controllers regulate any volume (0.1ml to 100L) or piece of equipment to 0.1 degree C. Solution phase parallel synthesis reactors (-78 to 130 C). Highly versatile syringe pump systems (1-24 positions). Digital vacuum regulators control to 0.1 torr. Robotic workstations for weighing, synthesis, reformatting and any custom application for \$30,000. Accessories include filter stations, capping stations, robotic shakers. **1300**

**JASCO**, 28600 Mary's Court, Easton, MD 21601, 800-333-5272, fax: 410-822-7526, e-mail:sales@jascoinc.com, Internet: www.jascoinc.com JASCO specializes in analytical instruments for spectroscopy and chromatography applications, with over 50 years of experience. JASCO's worldwide presence, superior product quality and outstanding service and support make the company an industry leader. JASCO is recognized for its robust and reliable chromatography instruments including SFC/SFE (analytical and preparative systems), HPLC and X-LC@ (UHPLC). The full line of spectroscopy products includes FT-IR, Portable IR, FT-IR microscopes, UV-Vis/NIR, Fluorescence, Raman, portable Raman, Near-field, Film Thickness, Polarimeters, Circular Dichroism and Dissolution testers. **1314**

**JEOL USA, Inc.**, 11 Dearborn Road, Peabody, MA 01960, 978-535-5900, fax: 978-536-2205, e-mail:salesinfo@jeol.com, Internet: www.jeolusa.com JEOL is a global leader of NMR, GC/MS, LC/MS, and electron optical instrumentation (SEM & TEM) used for scientific research and industrial applications. JEOL provides innovative technologies and products (such as our revolutionary high-resolution exact mass AccuTOF-DART mass spectrometer which allows analysis in open air at atmospheric pressure and ground potential with no solvent or sample preparation required). In addition to our AccuTOF-DART system we will also be showcasing our compact automated ECS 400 MHz NMR and award winning JSM-6010LA SEM with embedded EDS. **1519**

**John Wiley & Sons, Inc.**, 111 River St. 4-02, Hoboken, NJ 07030, 201-748-6000, Internet: www.wiley.com RECEIVE 20% off your order! To save, enter discount code 37814 in the Promotion Code field during checkout. Click the Apply Discount button so your savings are calculated. Offer expires September 23, 2012. \*Major Reference Works below excluded. Please read our Discount Terms and Conditions for more information. **1410**

**JULABO**, 884 Marcon Blvd., Allentown, PA 18109, (800) 458-5226, fax: (610)231-0260, e-mail:info@julabo.com, Internet: www.julabo.com We are a worldwide leader in liquid temperature control for Science, Research and Industry. JULABO products combine state of the art electronics with innovative design to offer a comprehensive range of products for all temperature applications. Our products provide temperatures ranging from -95 °C to +400 °C with up to 30 kW of cooling and 36 kW of heating capacity. With fast cool down times, small footprints, and quiet operation Julabo has a solution for your liquid temperature control application. **832**

**Kalxsyn, Inc.**, 4502 Campus Dr., Kalamazoo, MI 49008, 269-488-8488, fax: 269-488-8490, e-mail:info@kalxsyn.com, Internet: www.kalxsyn.com, Sales Contact: David Zimmermann, CEO, Schedule an appointment with this exhibitor Kalxsyn is a world-class medicinal chemistry CRO. Our scientists' average 15 years experience in hit validation, lead optimization and solving tough synthetic problems. We also provide stable label synthesis, custom synthesis and process route development to our world-wide customer base. We offer clients an outstanding CRO experience with fixed quote, tailored short and long term FTE

arrangements. Kalxsyn is privately owned with operations in Kalamazoo, Michigan. **1215**

**KNF Neuberger**, 2 Black Forest Road, Trenton, NJ 08691-1810, 609-890-8600, fax: 608-890-8323, e-mail:knfusa@knf.com, Internet: www.knf.com/lab See KNF Lab's new, wireless SC950 series vacuum pump system. It brings fast and precise processing, extremely quiet operation and easy regulation of all vacuums, including wireless remote control. The exclusive wireless touchscreen remote provides full operation of the pump's four operating modes and functions, allowing for flexibility and optimal use of lab space. You can adjust the system parameters from outside your fume hood without opening the sash. Also on display are KNFLab liquid dosing pumps, Laboport PTFE oil-free vacuum pumps and our line of compact, lightweight filtration pumps, featuring the lowest-maintenance and cost of ownership available. **1326**

**Krüss America, LLC**, 1020 Crews Road, Suite K, Matthews, NC 28105, 704-847-8933, fax: 704-847-9416, e-mail:jrc@krussusa.com, Internet: www.kruss.info **1006**

**LABCONCO, Corp.**, 8811 Prospect Avenue, Kansas City, MO 64132, 816-333-8811, fax: 816-363-0130, e-mail:labconco@labconco.com, Internet: www.labconco.com Since 1925 Labconco Corporation has been manufacturing quality laboratory equipment including: Fume Hoods, Glassware Washers, Biosafety Cabinets, Lyophilizers (Freeze Dryers), Vacuum Concentrators, Bioconcentrators, Carts, Glove Boxes, Kjeldahl Apparatus, Evaporation Systems, Vacuum Pumps and Clean Benches. **915**

**Laboratory Equipment**, 100 Enterprise Drive, Suite 600, Rockaway, NJ 07866, 973-920-7000, Internet: www.laboratoryequipment.com Laboratory Equipment, an Advantage Business Media property, provides laboratory managers, researchers and other scientific professionals news of the latest developments in equipment, systems, software, consumables and services for the lab with a monthly publication, web site and newsletter series. Laboratory Equipment delivers critical editorial coverage of essential technology that will have a positive impact on laboratory research and development activities. Chromatography Techniques, a supplement to Laboratory Equipment, delivers information on products, applications and technologies in chromatography with a quarterly print product, web site and newsletters. Free subscriptions are available at our booth. **311**

**LabX Media Group**, 478 Bay Street, Midland, ON, Canada L4R 1K9, 888-781-0328, fax: 705-528-0270, e-mail:labx@labx.com, Internet: www.labxmediagroup.com LabX Media Group is a scientific publication company of four business units. The core unit LabX, www.labx.com is an online portal to buy & sell lab equipment. Lab Manager Magazine, www.labmanager.com is a free monthly publication covering leadership/staffing, lab safety, & new products. LabWrench, www.labwrench.com is a network for product forums about lab equipment. LabX also operates life science magazine The Scientist. **1316**

**LAUDA-Brinkmann, LP**, 1819 Underwood Blvd., Delran, NJ 08075, Internet: www.lauda-brinkmann.com LAUDA-Brinkmann, located in Delran, NJ, is the largest of LAUDA's seven global subsidiaries. LAUDA, founded in 1956, and headquartered in Lauda-Königshofen, Germany, is the leading manufacturer of premium temperature control equipment and analytical measuring devices including static water baths, low and high temperature thermostats, lab-scale and industrial circulation chillers, industrial heating and cooling systems and process viscosity instruments. Our products provide precise temperature control from -100 °C to 400 °C with up to 400kW of cooling capacity. Contact LAUDA-Brinkmann via email at info@auda-brinkmann.com or call (856) 764 7300. **1108**

**LCGC**, 485F US Highway One South, Suite 100, Iselin, NJ 08830, 732-346-3085, fax: 732-647-1235, Internet: http://www.chromatographyonline.com LCGC's mission is to enhance productivity, efficiency, and the overall value of separation science globally. Through unbiased peer-reviewed content, trusted troubleshooting advice, and best-practice application solutions, we serve as a mentor to laboratory-based analytical chemists so they can enhance their proficiency in modern chromatographic techniques and instrumentation. This in turn provides them with a competitive advantage for the real-world analysis issues they face. **1005**

**LECO Corporation**, 3000 Lakeview Avenue, St. Joseph, MI 49085, 269-985-5496, fax: 269-982-8977, e-mail:info@leco.com, Internet: www.leco.com In 1936, the Laboratory-based analytical company introduced the first rapid carbon determinator to the American iron and steel industry. Over 75 years later, LECO is recognized globally as a leader in the development of high-quality analytical instrumentation, mass spectrometers, chromatographs, metallography and optical equipment, and consumables **1103**

**M. Braun Inc.**, 14 Marin Way, Stratham, NH, United States 03885, 603-773-9333, fax: 603-773-0008, e-mail:c.bartlett@mbraunusa.com, Internet: www.mbraunusa.com **801**

**Maruzen Co., Ltd.**, 40 Seaview Dr., 2nd Floor, Secaucus, NJ 07094, 201-865-4400, fax: 201-865-4845, Internet: www.maruzen.info/hgs Maruzen International Co., Ltd (MIC) is the leading distributor of globally renowned HGS Molecular Model. The company is located in Secaucus, NJ, with the parent company Maruzen Co., Ltd. in Tokyo. Manufactured in Japan, HGS molecular model has attracted researchers, educators, and students all over the world for over 40 years. This subtle and professionally manufactured model has very wide variety of options, which will suit any type of research/educational activities in the broad fields of chemistry, pharmacology etc. **1214**

**Massaging Insoles**, P.O. Box 30, Bishopville, MD 21813, United States, Internet: www.massaginginsoles.com **1635**

**Materia, Inc.**, 60 N. San Gabriel Blvd., Pasadena, CA 91107, 626-584-8400, fax: 626-584-1984, Internet: www.materia-inc.com Materia was founded in 1998 to commercialize olefin metathesis catalyst technology. This Nobel Prize-winning technology enables chemical compounds to be synthesized with greater efficiency, under less stringent reaction conditions, and with reduced byproducts and hazardous waste. Metathesis has been accepted as an emerging "green technology" platform and has been broadly adopted by the pharmaceutical, chemical, and polymer industries. Materia has developed an extensive intellectual property portfolio, which includes over 350 issued and pending patents covering not only catalyst composition and manufacture, but also methods of using the technology to perform a wide variety of transformations and compositions of certain products. **1719**

**Matrix Scientific**, P.O. Box 25067, Columbia, SC 29224, 803-788-9494, fax: 803-788-9419, e-mail:sales@matrixscientific.com, Internet: www.matrixscientific.com New research chemical intermediates and building blocks CD-ROM catalog available for 2012 featuring over 60,000 items; many novel to Matrix. The CD-ROM catalog is available with a SDF file. Featured are amino acids, boronic acids, fluorine compounds, sulfonyl chlorides, pyrimidines, indoles, (trifluoromethyl)pyridines, etc. Over 20,000 building blocks! Products find application in pharmaceutical, agrochemical, polymer, coatings and pure and applied research. Principals have over 46 years of experience in the manufacture and supply of quality products for research and development. **900**

**MeasureNet Technology**, 4240 Airport Road, Cincinnati, OH 45226, 866-396-6765, fax: 866-209-8111, e-mail: info@measurenet-tech.com, Internet: www.measurenet-tech.com MeasureNet brings Laboratory Information Management System (LIMS) to teaching laboratories. MeasureNet's MCANTM (Multi-Functional-Chemical-Analysis-Network) network design provides high-quality data-acquisition and laboratory management without the cost and maintenance of bench-cluttering, stand-alone PCs. MeasureNet's patented technology enables live data monitoring via the internet and remote storage for collaborative exercises between multiple labs and institutions. Each network supports up to 16 workstations for experiments including temperature, pressure, pH, voltage, and mass measurements. A shared UV-vis spectrometer delivers 1-nm resolution spectroscopy to student workstations. Acquisition tools include: dual-beam-colorimeter, conductivity, dissolved-oxygen, melt-temp, colorimetric-titration, ion-selective-electrodes, and electrochemistry probes. MeasureNet integrates GCs, HPLCs, and calorimeters for advanced laboratories. **1626**

**Med Chem 101, LLC**, Plymouth Corporate Ctr., Bldg. D107, 625 West Ridge Pike, Conshohocken, PA, United States 19428, (610) 940-5500, fax: (610) 940-5503, Internet: www.medchem101.com Med Chem 101 offers custom medicinal chemistry services. We also supply cutting edge chemical products for studies in chemical genomics, drug metabolism, drug repurposing, click chemistry and other aspects of early stage drug discovery. **1529**

**Mestrelab Research SL**, Feliciano Barrera, 9B-Baixo, Santiago de Compostela, Spain 15706, 34-881-976-775, fax: 34-981-941-079, e-mail: info@mestrec.com, Internet: www.mestrelab.com **818**

**Metrohm USA, Inc.**, 6555 Pelican Creek Circle, Riverview, FL 33578, 866-Metrohm, fax: 813-316-4900, e-mail: info@metrohmusa.com, Internet: www.metrohmusa.com See why Metrohm USA is the market leader and go-to source for your analytical chemistry lab equipment. Featuring a complete line of swiss-made titrators and titration automation, ion chromatography systems, pH/ion meters, colorimeters, electrodes, voltammetric analyzers, oxidative stability instrumentation and more. All carry 3 year warranties, and our IC MSM suppressor features an unprecedented 10-yr warranty! But we don't stop there: we back our systems with expert application support and services—we're there when you need us. Don't just take our word for it, stop by and talk with us! **921**

**Mettler-Toledo North America**, 1900 Polaris Parkway, Columbus, OH 43240, Internet: www.mt.com METTLER TOLEDO is a leading global manufacturer of precision instruments. The Company is the world's largest manufacturer and marketer of weighing instruments for use in laboratory, industrial and food retailing applications. The Company also holds top-three market positions in several related analytical instruments markets and is a leading provider of automated chemistry systems used in drug and chemical compound discovery and development. Additional information about METTLER TOLEDO can be found at www.mt.com/lab. **1615**

**Microfluidics Corp.**, 30 Ossipee St., Newton, MA 02464-9101, (617) 969-5452, fax: (617) 969-1213, Microfluidics, a Division of IDEX Material Processing Technologies, manufactures fluid material processors for unparalleled cell disruption, bottom-up crystallization, microencapsulation, microemulsions, dispersions and deagglomeration – providing innovative companies with the technology to develop nano-enabled medicines, chemicals and consumer products that change the world. Microfluidizer processors provide consistent and reproducible formulations as 100% of your product is exposed

to identical processing conditions every time. Scale-up is guaranteed providing seamless transition from laboratory through production. **1515**

**MicroLAB, Inc.**, PO Box 7358, Bozeman, MT 59711, 406-586-3274, fax: 406-586-3582, Internet: www.microlabinfo.com MicroLab's patented FS-522 high-resolution laboratory interface provides, in an affordable package and with a small footprint, almost every measurement needed for general chemistry: pH, temperature, pressure, REDOX, conductance, voltage, and more. MicroLab's integrated 360-880 nm FAST-spec scanning spectrophotometer simultaneously measures absorbance, fluorescence, scatter, transmission and turbidity. FASTspec is unique in its ability to perform spectrophotometric titrations. MicroLab's software is available for free download to students. **1505**

**Micromeritics Instrument Corp.**, 4356 Communications Drive, Norcross, GA 30093, 770-662-3633, fax: 770-662-3696, e-mail: ussales@micromeritics.com, Internet: http://www.micromeritics.com Micromeritics is a leading supplier of materials characterization analytical laboratory instrumentation and services. The company manufactures a broad line of automated laboratory instruments that measure physical characteristics of powders and solids for fundamental research, product development, quality assurance and control, production, and process control applications. Measurements obtained include particle size, particle shape, surface area, pore volume, pore size and pore size distribution, material density, catalytic activity, and temperature-programmed reactions. Micromeritics markets an auxiliary selection of materials characterization instruments under its Particulate Systems brand. Micromeritics also operates Micromeritics Analytical Services and Micromeritics Pharmaceutical Services, both providing contract sample analyses and consulting services. **526**

**Microtrac Inc.**, 148 Keystone Drive, Montgomeryville, PA, United States 18936, 727-507-9770, fax: 727-507-9774, Internet: www.microtrac.com **1709**

**Nagase & Co.**, 1-1-17, Shinmachi, Nishi-ku, Osaka, Japan 550-8668, 81-6-6535-2325, fax: 81-6-6535-2480, e-mail: hiroshi.nonoguchi@nagase.co.jp, Internet: www.nagase.co.jp/pharma Nagase have been developing new types of unnatural amino acids which are applicable for new drugs with small molecules and peptides. Nagase deals with not only in reagent scale but also in bulk quantities of unnatural amino acid which are manufactured by Maruoka Asymmetric Phase-Transfer Catalytic Technologies at GMP factory in Japan. **919**

**Nanalysis Corp.**, Bay 4, 4500 5 Street NE, Calgary, AB T2E 7C3, Canada, 403-769-9499, fax: 403-775-6683, Internet: nanalysis.com, Sales Contact: Sean Krakowsky, President & CEO **637**

**Nanonics Imaging Ltd.**, Har Hotzvim HiTech Park, 19 Hartum Street, Jerusalem, Israel 97775, 972-2-6789-573, ext. 208, fax: 972-2-6480-827, Internet: www.nanonics.co.il Raman/AFM pixel-by-pixel chemical/structural nanocharacterization. Unique protocols for tip enhanced Raman scattering (TERS) and SERS. Ultimate resolution AFM/NSOM/SPM systems including the first multi-probe systems, with environmental control and fully integrated with optical or electron microscopes. Ultra Soft bio-SPM/NSOM Multi-probe imaging with the Nanonics HydraTM, with non-optical highly sensitive tuning fork feedback in liquid. Ultra-low temperature 100K SPM/NSOM Systems fully integrated with Optical Microscopy & microRaman. AFM controlled gas/liquid chemical lithography coupled to capillary zone electrophoresis, Widest choice of cantilevers from standard silicon to a NanoTool KitTM of cantilevered glass probes including The

NanoFountainPen™, Nanoheater™ with differential scanning calorimetry, NanoOptical and SECM probes **1107**

**NanoSight**, 6660 N High Street, Suite 2A, Worthington, OH 43085, United States, Internet: www.nanosight.com, Sales Contact: Jim Munnhall, Eastern Regional Manager **729**

**NASA**, 300 East St., SW, Washington, DC 20546, 301-614-5560, fax: 301-614-6530, Internet: www.nasa.gov NASA Earth System Science conducts and sponsors research, collects new observations from space, develops technologies and extends science and technology education to learners of all ages. We work closely with our global partners in government, industry, and the public to enhance economic security, and environmental stewardship, benefiting society in many tangible ways. We conduct and sponsor research to answer fundamental science questions about the changes we see in climate, weather, and natural hazards, and deliver sound science that helps decision-makers make informed decisions. **527**

**Nat'l Res. Council/ Nat'l Academies**, Fellowship Programs, 500 5th St., NW, Washington, DC 20001, 202-334-2760, fax: 202-334-2759, e-mail: jdellammo@nas.edu, Internet: www.national-academies.org/rap Graduate, Postdoctoral and Senior Research Opportunities. The National Research Council of the National Academies offers awards to graduate, postdoctoral and senior researchers for independent research to be conducted in residence at participating U.S. federal laboratories and affiliated institutions. Awards include competitive stipends, relocation, professional travel, and health insurance. Duration of awards is one year renewable for up to three years maximum. Annual application deadlines are February 1, May 1, August 1 and November 1. Additional information and instructions for submitting online applications can be found at http://www.national-academies.org/rap, and at the National Research Council exhibit booth #1402. **1402**

**National Library of Medicine**, 8600 Rockville Pike, Bethesda, MD 20892, 301-496-3147, fax: 301-480-3537, e-mail: tehip@tehl.nlm.nih.gov, Internet: www.nlm.nih.gov The National Library of Medicine provides FREE Internet access to its environmental health, toxicology, chemical, and hazardous substances resources. These resources include the TOXNET® (TOxicology data NETwork) databases; Haz-Map®, an occupational toxicology database; Tox Town®, an interactive guide to commonly encountered toxic chemicals and environmental health risks; and Household Products, a database that provides information on the health effects of chemicals contained in products used inside and around the home. tox.nlm.nih.gov **417**

**Nature Publishing Group**, 75 Varick Street, 9th Floor, New York, NY 10013, 212-726-9200, fax: 212-696-9006, Internet: www.nature.com The NPG portfolio combines the excellence of Nature, its associated research and review journals, and leading academic and society journals in the life, physical and clinical sciences. Open access options are offered through the academic and society journals, Nature Communications and through a new fully open access publication: Scientific Reports. **1600**

**Netzsch Instruments North America, LLC**, 129 Middlesex Turnpike, Burlington, MA 01803, 781-272-5353, fax: 781-272-5225, e-mail: nib-sales@netsch.com, Internet: www.netsch-thermal-analysis.com, Sales Contact: Lloyd MacPherson, Sales Manager Thermal analysis, calorimetry, thermal properties, & contract testing services; DSC, DTA, TGA, STA (Simultaneous DSC/DTA-TGA) from cryogenic to +2400C, evolved gas analysis by coupled FTIR, MS, and a new GC-MS system, adiabatic reaction calorimeters (ARC & APTAC) to measure thermal & pressure properties of exothermic chemical reactions, new MMC 274 tabletop reaction calorimeter, dilatometers, thermal conductivity,



thermal diffusivity by laser flash & xenon flash to +2800C, DMA, TMA, and DEA—dielectric analysis for in-situ thermoset cure monitoring. **433**

**New Era Enterprises**, P.O. Box 747, Vineland, NJ 08362-0747, 800-821-4667, fax: 856-697-8727, Internet: www.newera-spectro.com Infrared optics-windows, lenses, ATR elements and optical coatings; Liquid, solid, gas transmission accessories; Internal, specular and diffuse reflectance accessories; HATR crystal plate mount and liquid transmission cell reconditioning; Ultraviolet, Visible, Fluorescence supplies and accessories. NMR sample tubes from micro to large diameter MRI cells, screw thread, tip-off, pressure valve and non-glass sample cells; capillary systems for very limited sample; RDC sample preparation and measurement supplies and accessories; EPR/ESR quartz sample tubes. AA and ICP sampling supplies and accessories. **305**

**New Scientist**, 225 Wyman Street, Waltham, MA, United States 02451, 781-734-8786, e-mail: leah.kinthaert@newscientist.com, Internet: www.newscientist.com New Scientist is the world's number one science and technology weekly, with over 900,000 readers and 2.73 million monthly unique users. In print since 1956, and online since 1996, New Scientist keeps its readers up to date with the worlds of technology, health and public policy. Updated throughout the day online, our global network of specialist correspondents provides comprehensive coverage of breaking science and technology news. **533**

**NIST**, 100 Bureau Drive, Stop 2300, Gaithersburg, MD 20899-2300, 301-975-3774, fax: 301-926-0416, e-mail: diane.decker@nist.gov, Internet: www.nist.gov/srm NIST Standard Reference Materials supports accurate and compatible measurements by certifying and providing over 1300 Standard Reference Materials with well-characterized composition or properties, or both. SRMs are used to perform instrument calibrations as part of overall quality assurance programs, verify the accuracy of specific measurements and support the development of new measurement methods. The Standard Reference Data Group has provided well-documented numeric data to scientists and engineers for use in technical problem-solving, research, and development. The Calibration Services are designed to help the makers and users of precision instruments achieve high levels of measurement quality and productivity. **301**

**Norton**, 500 Fifth Ave., New York, NY 10110, 212-548-4751, fax: 212-790-4261, Internet: www.norton.com The oldest and largest publishing house owned wholly by its employees, W. W. Norton, Inc. publishes about 400 trade, college, and professional titles each year. **510**

**Oakwood Products Inc.**, 1741 Old Dunbar Road, West Columbia, SC 29172, 803-739-8800, fax: 803-739-6957, e-mail: sales@oakwoodchemical.com, Internet: www.oakwoodchemical.com Oakwood Products, a manufacturer and distributor, supplies research chemicals to the pharmaceutical, agrochemical and materials research communities. Oakwood's product listing contains over 50,000 items, including many unique building blocks and reactive intermediates. Routine synthetic work includes sulfur tetrafluoride chemistry as well as most routine transformations. Oakwood provides custom synthesis services from kilo-lab through pilot scale at both of our sites in South Carolina. Oakwood distributes for ChemCollect, Chess, Kishida and Tetramer Technologies, LLC. **1100**

**Ocean Optics, Inc.**, 830 Douglas Avenue, Dunedin, FL 34698, 727-733-2447, fax: 727-733-3962, e-mail: info@oceanoptics.com, Internet: www.OceanOptics.com **1227**

**OLIS, Inc.**, 130 Conway Drive, Suites ABC, Boggart, GA 30622-1724, 706-353-6547 or 800-852-3504, fax: 706-353-1972, e-mail: sales@olisweb.com, Internet: www.olisweb.com Olis spectrophotometers provide innovative alter-

natives to the standard UV/Vis NIR absorbance, fluorescence, and CD spectrophotometers. From the CLARITY which acquires accurate absorbance on frozen solutions, living cell suspensions, nanoparticles, and hydrogels, to the computerization of the HP 8452, Olis offers important choices for the life and materials science investigators. Endlessly upgradeable, no Olis spectrophotometer ever needs to be replaced, but can be modernized when approaching obsolescence. We x produce stopped-flows, titrators, temperature control, and flash systems, too; and modernize classic Cary, SLM, and Aminco UV/Vis systems. Raise your expectations to Olis, Inc., and let your brilliant breakthroughs happen! **515**

**Opotek, Inc.**, 2233 Faraday Avenue, Suite E, Carlsbad, CA 92008, 760-929-0770, fax: 760-929-8782, Internet: www.opotek.com OPOTEK offers the widest range of efficient and broadly tunable laser systems based on Optical Parametric Oscillator (OPO) technology. Systems are portable, compact and durable with tuning ranges from the UV to MIR. Our feature system, the Phocus, is an integrated, turn-key tunable laser system for Photoacoustic Imaging. The system utilizes patented technology, which generates high energy, short pulse beams in the NIR. All products are computer controlled via USB and designed for a variety of applications including photochemistry, photobiology, hyperspectral imaging, mass spectrometry, pharmaceutical processing and environmental monitoring. **727**

**Optibrium Ltd.**, 7226 IQ Cambridge, Beach Drive, Cambridge, United Kingdom CB25 9TL, Internet: www.optibrium.com Optibrium's StarDrop™ software intuitively guides compound design and selection decisions in drug discovery to rapidly focus on chemistry with a good balance of properties. In StarDrop you can achieve true multi-parameter optimization, interactively design new compounds, guided by StarDrop's Glowing Molecule™, and explore your project's chemical space to quickly identify high quality chemistry. Plug-in modules include: validated QSAR models of key ADME properties; QM models of P450 metabolism; Auto-Modeller™, which builds and validates QSAR models tailored to your chemistry; Nova™, which generates new compound ideas prioritized for your objectives; and Cresset's FieldAlign® that helps to understand and apply 3D SAR. **404**

**Optofluidics, Inc.**, 3711 Market St., 8th Floor, Philadelphia, PA 19104, 215-966-6251 **1820**

**OriginLab Corp.**, One Roundhouse Plaza, Suite 303, Northampton, MA 01060, 800-969-7720, fax: 413-585-0126, e-mail: sales@originlab.com, Internet: www.originlab.com Origin is an easy-to-use software application that provides powerful data analysis and publication-quality graphing capabilities tailored to the needs of scientists and engineers. Origin provides over 70 customizable graph types, tools for peak analysis, curve fitting, statistics, signal processing, analysis templates, and batch-processing, all within an integrated workbook environment. **632**

**Oxford University Press**, 198 Madison Avenue, New York, NY, United States 10016, Internet: www.oup.com/us **1118**

**Park Systems, Inc.**, 3040 Olcott St., Santa Clara, CA 95054, 408-986-1110, fax: 408-986-1199, e-mail: psi@parkafm.com, Internet: http://www.parkafm.com/ Park Systems is a world leading manufacturer of Atomic Force Microscopy (AFM) with complete range of products for biological science, materials research, semiconductor and storage industries. Park's AFM provides highest data accuracy, superior productivity, and lowest operating cost. See our new NX10, the world's most accurate AFM at www.parkafm.com. **504**

**Parr Instrument Co.**, 211 53rd Street, Moline, IL 61265, 309-762-7716, fax: 309-762-9453, e-mail: parr@parrinst.com, Internet: www.parrinst.com For over 100 years, Parr Instrument Company has been engaged exclusively in the

design, manufacture and sale of laboratory instruments and apparatus for testing fuels and for conducting chemical reactions and tests under heat and pressure. Parr Instrument Company features Laboratory Reactors and Pressure Vessels, stirred and unstirred, for use at elevated temperatures and pressures in catalytic hydrogenation, organic synthesis, polymerization, and other chemical processes. Also featured are Oxygen Combustion Bomb Calorimeters for the determination of the heat of combustion in solid, liquid and refuse derived fuels, and Sample Preparation Equipment used in the acid digestion process for trace metal analysis. **306**

**Particle Sizing Systems**, 8203 Kristel Circle, Port Richey, FL 34668, 727-846-0866, fax: 727-846-0865, e-mail: donna@pssnicomp.com, Internet: pssnicomp.com **1209**

**Peak Scientific Instruments, Ltd.**, Fountain Crescent, Inchinnan Business Park, Scotland, United Kingdom PA4 9RE, +44 (0) 141 812 8100, fax: +44 (0) 141 812 8200, Internet: www.peakscientific.com **1611**

**Pearson**, One Lake Street, Upper Saddle River, NJ 07458, 415-402-2583, Internet: www.pearsonhighered.com Pearson, the global leader in education and education technology, is committed to providing quality content, assessment tools, and educational services, for millions of students and their instructors. Pearson continues to transform education and change the way students learn by offering innovative online resources and learning applications, such as Mastering Chemistry®. **401**

**PerkinElmer**, 710 Bridgeport Avenue, Shelton, CT 06484, 1-800-762-4000, fax: 203-944-4950, Internet: www.perkinelmer.com **313**

**Pharmabridge, Inc.**, 3805 Old Easton Rd., Doylestown, PA 18902, 215-589-6350, fax: 215-589-6316, e-mail: sales@pharmabridgegroup.com, Internet: www.pharmabridgegroup.com, Sales Contact: Sarah Khan, Product Manager Pharmabridge, Inc. is located at the Pennsylvania Biotechnology center of Bucks County (www.pabiotechbc.org). Our core business is contract research and manufacturing of Bulk APIs, Chemicals, and Intermediates. With expertise in multi-step synthesis and heterocyclic chemistry, we are committed to provide high quality services to our clients in a timely and cost-effective manner. Our services are including Drug discovery, Process Research and Development, Custom Synthesis and Manufacturing. **636**

**picoSpin, LLC**, 5445 Conestoga Ct., Suite 202, Boulder, CO 80301, 877-390-0465, e-mail: camiller@picospin.com, Internet: www.picospin.com **405**

**PIKE Technologies**, 6125 Cottonwood Drive, Madison, WI 53719, 608-274-2721, fax: 608-274-0103, Internet: www.piketech.com PIKE Technologies, Inc., the leading manufacturer of sampling accessories for FT-IR, NIR and UV-Vis spectrometers. Products include attenuated total reflectance (ATR), diffuse reflectance, specular reflectance, integrating spheres, polarization, IR microscope, beam condensers, remote sensing, and a complete line of transmission sampling accessories. Many of these products are available with optional heating and automation for increased sampling speed and productivity. PIKE Technologies, Inc. also offers design and consulting services for development of specialized and custom products for a wide range of spectroscopy applications. PIKE products are compatible with all major brands of spectrometers. **1101**

**Pine Research Instrumentation**, 2741 Campus Walk Avenue, Building 100, Durham, NC 27705, (919)782-8320, fax: 919-782-8323, e-mail: jgarry@pineinst.com, Internet: www.pineinst.com/echem Pine Research Instrumentation manufactures a full line of affordable, durable and reliable electrochemical research equipment. Pine offers benchtop bipotentiostat/galvanostat instru-

ments as well as portable USB potentiostat systems, all of which are controlled using our powerful AfterMath software package. We offer unique quartz electrochemical cells for photo-electrochemistry and spectroelectrochemistry, and we are the world leader in rotating disk, ring-disk, and cylinder electrode instrumentation. Our line of compact voltammetry cells, featuring screen-printed patterned electrodes, provides a quick and easy way to perform routine electrochemical measurements. [www.pineinst.com/echem](http://www.pineinst.com/echem) **302**

**Pittcon 2013**, 300 Penn Center Blvd., Suite 332, Pittsburgh, PA 15235, Internet: [www.pittcon.org](http://www.pittcon.org) Pittcon is the world's largest annual conference and exposition for laboratory science. If you identify, quantify, analyze, or test the chemical or biological properties of compounds or molecules, Pittcon is the place for you. We invite you to see all that Pittcon 2013 has to offer—the latest technology and instrumentation from nearly 900 exhibitors, a diverse Technical Program of over 2,000 sessions, unique networking opportunities with colleagues from 87 countries, and over 100 Short Courses to enhance your educational experience at Pittcon. March 17-21, 2013 - Pennsylvania Convention Center - Philadelphia, Pennsylvania USA **410**

**PNAS (Proceedings-Nat'l. Academy of Sciences)**, 700 11th St., NW, Suite 450, Washington, DC 20001, 202-334-1396, fax: 202-334-1346, e-mail: [jbradley@nas.edu](mailto:jbradley@nas.edu), Internet: WWW.PNAS.ORG **814**

**Polysciences, Inc.**, 400 Valley Road, Warrington, PA 18976, 215-343-6484, fax: 215-343-0214, e-mail: [info@polysciences.com](mailto:info@polysciences.com), Internet: [www.polysciences.com](http://www.polysciences.com) Polysciences, Inc. provides custom manufacturing and development of fine chemicals and intermediates for drug discovery, biotechnology, medical devices, cosmetics, electronics and analytical chemistry industries in large scale. The core service offered by Polysciences is custom synthesis of milligram to thousands of kilo quantities of compounds for use in research and development. We supply high purity optical monomers, UV absorbing materials and specialty polymer additives to the ocular lens industries. Our FDA audited production facilities are capable of both Good Laboratory Practice (GLP) and c-GMP level manufacturing. Please visit [www.polysciences.com](http://www.polysciences.com) or contact us at 215-343-6484 about your specialty chemical **316**

**Practicem**, 171 Industrial Drive, Burlington, WI 53105, United States, 262-767-1600, Internet: [www.practicem.com](http://www.practicem.com) **1821**

**PSS USA Inc.**, 160 Old Farm Road, Suite A, Amherst, MA, United States 01002, Internet: [www.pssgpcshop.com](http://www.pssgpcshop.com) PSS is dedicated to the advancement of macromolecular characterization by providing the expertise and tools to perform GPC/SEC analysis. We offer a comprehensive array of COLUMNS and STANDARDS for GPC/SEC analysis. We supply products for both ORGANIC and AQUEOUS environments for synthetic polymers, proteins and bio-polymers. Our modular SECurity GPC SYSTEMS and industry leading WinGPC family of SOFTWARE combine to form a powerful platform for all of your analytical requirements. We also provide training programs, contract analytical services and INSTRUMENTS for advanced GPC/SEC including; Viscometry, MALLS, multi-detection, and hyphenated techniques including GPC/FT-IR, GPC/NMR and GPC/MS. **1439**

**Qorpak**, Corporate One West, 1195 Washington Pike, Bridgeville, PA 15017, 412-257-3100, fax: 312-258-6787, Internet: [www.qorpak.com](http://www.qorpak.com) Qorpak, division of Berlin Packaging is your solution for stock closures, glass, plastic, and metal packaging and products. See our new ValuLine Bottles with Polypropylene F217 & PTFE lined caps attached – an affordable alternative to thermoset caps. We will not be undersold on ValuLine Bottles! With more than 30 years of experience, trust us to provide the

products, services and technical expertise you rely on. Quality labware includes KIMAX® tubes & flasks, MILLIPORE® filtration products, pH buffers, reagents and media. Whether you need advice about containers or laboratory supplies, we can answer your critical questions. [Qorpak.com](http://Qorpak.com) is ISO 9001:2008 certified. **407**

**Quark Glass**, P.O. Box 2396, Vineland, NJ 08362-2396, 800-955-0376, fax: 856-455-3373, e-mail: [sales@quarkglass.com](mailto:sales@quarkglass.com), Internet: [www.quarkglass.com](http://www.quarkglass.com) Quark Glass is a discount manufacturer of laboratory glassware. Our company combines excellent quality, lower prices, and the best SERVICE in the marketplace. If you need a product quickly, call Quark! We are exhibiting apparatus used in various bench-top applications, such as: manifold lines, filtration apparatus, custom distillation heads, and general laboratory ware. For scale-up, Quark offers up to 100L jacketed reactor set-ups. We offer extensive educational discounts and our products are MADE in the USA. **1301**

**Reaction Analytics Inc.**, 2711 Centerville Road, Suite 5992, Wilmington, DE 19808, 858-472-2393, e-mail: [administrator@ichemexplorer.com](mailto:administrator@ichemexplorer.com), Internet: [www.ichemexplorer.com](http://www.ichemexplorer.com), Sales Contact: Michael Lopez, Administrator **1436**

**Research In Germany**, 871 United Nations Plaza, New York, NY 10017, (212) 339-7137, fax: (212) 339-7138, e-mail: [stefan.altevogt@dfg.de](mailto:stefan.altevogt@dfg.de), Internet: [www.dfg.de](http://www.dfg.de) Research in Germany is the central information platform to promote innovation and research in Germany. It informs researchers and scientists about research in Germany, and addresses a whole host of other players from politics and government, business and industry. One key goal of the platform is to provide an overview of research and funding opportunities in Germany. Additionally, practical information supports foreign scientists and researchers in their decision to collaborate with German research organizations and/or to complete a research stay in Germany. **539**

**Richman Chemical Inc.**, 768 North Bethlehem Pike, Lower Gwynedd, PA 19002, 216-628-2946, fax: 215-628-4262, e-mail: [clk@richmanchemical.com](mailto:clk@richmanchemical.com), Internet: [www.richmanchemical.com](http://www.richmanchemical.com) Richman Chemical Inc. provides expert project management for all chemical and pharmaceutical outsourcing requirements, focusing on value-added custom synthesis and processing solutions. Our experienced chemical sourcing staff can locate and provide difficult-to-find chemical compounds (any scale). Our expertise, outstanding reputation, and global presence allow us to provide cost effective products and services in a timely manner. This foundation typically results in savings of time and money, while ensuring the highest quality outcome for the final, outsourced process and/or material. Visit our website to learn more about us. Meet our project managers at Booth 810 in Philadelphia. **810**

**Rieke Metals, Inc.**, 1001 Kingbird Road, Lincoln, NE 68521, Internet: [www.RiekeMetals.com](http://www.RiekeMetals.com) Rieke Metals Inc. provides novel research reagents and organic semiconducting polymers based on highly reactive metal chemistry with exceptional quality and service. Headquartered in Nebraska, the facility has been manufacturing over 10,000 research compounds and more than 350 thousand molecules under research contract for 21 years. Included in the list of products are highly active Rieke Zinc and Magnesium, Grignard and Organozinc reagents, fine organic chemicals and organic semi-conducting polymers/monomers including P3HT. **1434**

**Rigaku Americas Corp.**, 9009 New Trails Drive, The Woodlands, TX 77381, 281-362-2300, fax: 281-364-3628, Internet: [www.rigaku.com](http://www.rigaku.com) Rigaku Corporation provides the world's most complete line of X-ray diffraction and X-ray fluorescence instruments and components, including bench-top XRD and XRF systems, X-ray optics and detectors, single crystal diffractometers for chemical crystallography, multi-purpose diffractometers with SAXS and in-plane capabilities,

and high-powered WDXRF spectrometers. Founded in 1951 in Tokyo (Japan), Rigaku Corporation is a global leader in X-ray and thermal analysis, automation solutions and non-destructive testing. Rigaku employs more than 1,100 people in the development, manufacturing, marketing and support. **820**

**Royal Society of Chemistry**, Thomas Graham House, Science Park, Milton Road, Cambridge, United Kingdom CB4 0WF, 44-1223-432-378, fax: 44-1223-426-017, e-mail: [sales@rsc.org](mailto:sales@rsc.org), Internet: [www.rsc.org](http://www.rsc.org) The RSC is the largest organization in Europe for advancing the chemical sciences. Supported by a worldwide network of members and an international publishing business, our activities span education, conferences, science policy and the promotion of chemistry to the public. Drop by our stand (booth number: 701) to meet a member of the RSC team. **701**

**Royal Society Publishing**, 6-9 Carlton House Terrace, London, United Kingdom SW1Y 5AG, Internet: [royalsocietypublishing.org](http://royalsocietypublishing.org) The Royal Society, the UK Academy of Science, publishes two physical science journals, both of which regularly publish content in chemistry. 'Proceedings A' publishes influential research articles and reviews 'Philosophical Transactions A' publishes topical themed issues Find out more from our representative, Dr Joanna Harries, at booth 1116 or, alternatively, visit our website at <http://royalsocietypublishing.org> **1116**

**Sapling Learning**, 2815 Exposition Blvd., Austin, TX 78703, 512-323-6565, e-mail: [info@saplinglearning.com](mailto:info@saplinglearning.com) Sapling Learning provides the most effective interactive homework and instruction that improves student learning outcomes for the problem-solving disciplines. We offer an enjoyable teaching and effective learning experience that is distinctive: easy-to-use; targeted, instructional content, unsurpassed service and support by PhD- and Masters-level colleagues, and textbook independent. For more information, please contact [sales@saplinglearning.com](mailto:sales@saplinglearning.com) **1804**

**Schrödinger, Inc.**, 101 SW Main Street, Suite 1300, Portland, OR 97204, 503-299-1150, fax: 503-299-4532, e-mail: [info@schrödinger.com](mailto:info@schrödinger.com), Internet: [www.schrödinger.com](http://www.schrödinger.com) Schrödinger will exhibit its full suite of drug discovery software, including the industry-leading Glide for ligand docking, Induced Fit Docking (IFD) to account for protein flexibility, Phase for ligand-based pharmacophore and shape-based modeling, Canvas, a full-featured cheminformatics package, and BioLuminate, a comprehensive modeling package for biologics. Also available for hands-on demonstration are Jaguar, a high-performance quantum mechanical package, and MacroModel, a comprehensive molecular modeling program with particular strengths in conformational analyses. The Schrödinger booth will also be featuring Seurat, an advanced data visualization and analysis tool, ideal for data sharing within any drug discovery project team. **1501**

**Scientific Instrument Services**, 1027 Old York Rd, Ringoes, NJ 08551, 908-788-5550, fax: 908-806-6631, e-mail: [sales@sisweb.com](mailto:sales@sisweb.com), Internet: [www.sisweb.com](http://www.sisweb.com) Scientific Instrument Services has a reputation as a leading worldwide provider of supplies and services for Scientific Instrumentation. SIS specializes in the manufacture of filaments for mass spectrometers and related scientific instruments. Contract Machining. SIS operates a world-class machine shop for the manufacture of parts for the scientific and medical community. Our shop includes ultramodern CNC equipment for the machining of parts from virtually all materials to the high precision standards and cleanliness required by our customers. **1105**

**Scientific Systems, Inc.**, 349 North Science Park Road, State College, PA 16803, 814-234-7311, fax: 814-234-2469, e-mail: [sales@ssihipc.com](mailto:sales@ssihipc.com), Internet: [www.ssihipc.com](http://www.ssihipc.com) **1616**

**Scilligence Corporation**, 15 New England Executive Park, Burlington, MA 01803, United States, 781-330-0089, Internet: [www.scilligence.com](http://www.scilligence.com), Sales Contact: Dr. Jinbo Lee, CSO **1303**

**Semichem**, 12456 W. 62nd Terrace, Suite D, Shawnee, KS 66216, 913-268-3271, fax: 913-268-3445, e-mail: [jana@semichem.com](mailto:jana@semichem.com), Internet: [www.semichem.com](http://www.semichem.com) AMPAC™ is Semichem's flagship product and is a fully-featured semiempirical quantum mechanical program. It includes an industry leading graphical user interface (GUI) that builds molecules and offers full visualization of results. AMPAC™ is designed to perform calculations suitable for stand-alone use as a structure and/or information engine or as an information source for high-throughput screening. Semichem also offers CODESSA™, an advanced, fully featured quantitative structure/activity relationship (QSAR) program that ties information from AMPAC™ and other QM programs with experimental data. **1233**

**Shimadzu Scientific Instruments Inc.**, 7102 Riverwood Drive, Columbia, MD 21046, 800-477-1227, fax: 410-381-1222, Internet: [www.shimadzu.com](http://www.shimadzu.com) Shimadzu Scientific Instruments is a leading provider of analytical measurement and testing instrumentation for a broad range of applications in science and industry, including in such areas as academic research, pharmaceuticals, food & beverages, environmental, chemicals, and forensics. Instruments include chromatographs (HPLC/UFLC/UHPLC, GC); mass spectrometers (GC/MS, LC/MS, MALDI); spectrophotometers (FT-IR, Fluorescence, UV-VIS-NIR); atomic spectrometers (AA, ICP); X-ray spectrometers (EDX, XRD, XRF); thermal & particle size analyzers; Total Organic Carbon analyzers; data systems/software; balances; and materials testers. **901**

**Sinova Inc.**, 3 Bethesda Metro Center, Suite 700, Bethesda, MD 20814, 410-908-9675, fax: 240-235-4288, e-mail: [sales@sinovainc.com](mailto:sales@sinovainc.com), Internet: [www.sinovainc.com](http://www.sinovainc.com), Sales Contact: Maggie Lee, Project Manager Sinova has served over thousands of clients to date worldwide in the area of fine chemicals, custom synthesis, full-time equivalents (FTEs), and analytical/bio-analytical chemistry services. In addition, the company specializes in the production of indoles and azaindoles. Over 500 rare indoles and azaindoles are in stock. Please visit our website at [www.sinovainc.com](http://www.sinovainc.com) to see our products. **209**

**Sorbent Technologies**, 5955 Peachtree Corners East, Suite A, Norcross, GA 30071, 866-767-2832, ext. 0281, e-mail: [dschurer@sorbtech.com](mailto:dschurer@sorbtech.com), Internet: [www.sorbtech.com](http://www.sorbtech.com) Sorbent Technologies specializes in premium chromatography products for natural product purification & organic synthesis used in laboratory, pilot, and production facilities. Bulk Sorbents: Silicas, Bonded Phases, Aluminas, Polymer Resins, Florisil, Polyamide; TLC Plates; Flash Cartridges & Systems; HPLC Columns: Analytical & Semi-Prep; & Prep (Grace Vydac, Macherey-Nagel, Jordi-GPC & SEC); GC columns; FPLC Columns for Prep & Process; SPE Cartridges; Centrifug Solvent Evaporation Systems; UHPLC Systems. Lab Supplies: Pipet Tips, PCR, Tubes, Pipettors, Gloves, Racks, Boxes, Dispensers, Microscopes. We are your Separation Solution Source! **1627**

**Specac, Ltd.**, River House, 97 Cray Avenue, ORPINGTON, Kent BR5 4HE, United Kingdom, 44 (0)1689 873134, fax: 44 (0)1689 878527, Internet: [www.specac.com](http://www.specac.com) **212**

**Springer**, 233 Spring Street, New York, NY 10013, 212-460-1600, fax: 201-348-4505, Internet: [www.springer.com](http://www.springer.com) Visit our booth #711 and browse more than 2,200 books currently available in the Chemistry and Materials Science eBook Collection in your preferred format: print, MyCopy (printed eBooks for \$24.95/€ 24.95), online, or on an eReader or iPad. Among our highlight publications are renowned review series such as Topics in Current Chemistry, and cutting-edge journals such as Topics in Catalysis and Analytical and Bioanalytical Chemistry. En-

sure optimized print and electronic dissemination of your work, too! Get Read. Publish With Springer. **711**

**StellarNet Inc.**, 14390 Carlson Circle, Tampa, FL 33626, 813-855-8687, fax: 813-855-0394, e-mail: [dpersell@stellarnet.us](mailto:dpersell@stellarnet.us), Internet: [www.StellarNet.us](http://www.StellarNet.us) Since 1991, StellarNet, Inc. has been a global provider of low cost miniature spectrometer systems and spectroscopy software for product analysis, research, education, and OEM. StellarNet instrumentation is rugged for any environment—lab, process, or field. We offer complete systems and accessories including light sources, sampling fixtures, cuvette holders, optical fibers, and probes. Applications include UV-VIS-NIR chemical absorbance (190-2300nm), fluorimetry, time series analysis and kinetic studies, thin-film metrology, reflectometry and colorimetry, solar spectral analysis, LED/Laser characterization, LIBS, optical emission spectroscopy, and Raman. **400**

**Strem Chemicals**, 7 Mulliken Way, Dexter Industrial Park, Newburyport, MA 01950-3104, 978-499-1600, fax: 978-465-3104, Internet: [www.strem.com](http://www.strem.com) Strem Chemicals, an Employee-owned company, established in 1964, manufactures and markets over 4,000 metals, inorganics and organometallics for research and development including metal catalysts and ligands for organic synthesis, MOCVD/ALD precursors and nanomaterials, for use in pharmaceutical, microelectronics, chemical and petrochemical industries. Custom synthesis services are also provided. cGMP manufacturing is also available. Nanomaterials manufactured include clusters, particles, powders and magnetic fluids of Ti, Au, Pt, Rh, Ni, Pt/Ru, Co, Fe/Co. **514**

**Supercritical Fluid Technologies**, One Innovation Way, Suite 303, Newark, DE 19711, 302-738-3420, fax: 302-738-4320, e-mail: [info@supercriticalfluids.com](mailto:info@supercriticalfluids.com), Internet: [www.supercriticalfluids.com](http://www.supercriticalfluids.com) Equipment for supercritical fluid extraction (SFE), reaction (SFR), and high pressure chemistry. Laboratory SFE: 5 ml to 4 L; Pilot scale SFE Systems: Single or dual 10 liters with fraction collectors and automation. HPR-Series™ Chemical Reactors: 50 ml to 4 liter. Customized reactors and extractors to your specifications, including SCWO and larger volume systems. Phase Monitor™ for visual solubility determinations in supercritical fluids. CO<sub>2</sub> and solvent pumps, parts and service. Consultation and contract research services. **816**

**SURECHEM**, The Macmillan Building, 4 Crinan Street, London, United Kingdom N19XW, 011 44 20 7833 4000, fax: 011 44 20 7843 4640, Internet: [www.surechem.org](http://www.surechem.org) **1703**

**Sympatec, Inc.**, 1600 Reed Rd., Suite C, Pennington, NJ 08534, 609.303.0066, fax: 609.303.0365, e-mail: [usa@sympatec.com](mailto:usa@sympatec.com), Internet: [www.sympatec.com](http://www.sympatec.com) Sympatec is the technology leader in Particle Size and Shape Analysis. No matter if you need to measure your particles in the process or in a laboratory setting, Sympatec has a solution ready. Fields of application are R&D, QC or Process Control. Our HELOS Laser Diffraction Analyzer, as well as our QICPIC High-Speed Imaging System, combined with wet- or dry- dispersers like RODOS QUIXEL or SUCCELL bring our technologies to the lab. Their in-process equivalents MYTOS, PICTOS, and OPUS can withstand even the harshest environments. We also offer Nano-Analysis with NANOPHOX. **1801**

**Synquest Laboratories, Inc.**, P.O. Box 309, Alachua, FL 32616-0309, 386-462-0788 or 877-4-FLUORO (toll free), fax: 386-462-7097, e-mail: [info@synquestlabs.com](mailto:info@synquestlabs.com), Internet: [www.synquestlabs.com](http://www.synquestlabs.com) Fluorine Chemistry Specialists SynQuest specializes in fluorinated organic and inorganic chemicals, providing a creative and innovative range of building blocks, reagents and compressed and liquefied gases. We offer

chemical services designed to expedite your research from conception to pilot quantities. **1726**

**Synthonix**, 2713 Connector Drive, Wake Forest, NC 27587, 919-875-9277, fax: 919-875-9601, Internet: [www.synthonix.com](http://www.synthonix.com) Synthonix provides progressive building blocks designed by medicinal chemists. Our primary focus is on non-aromatic 3-dimensional building blocks that provide access to relatively unexplored chemical space. **1000**

**Syrris Ltd.**, 29 Albion Place, Charlestown, MA 02129, 617-848-2997, fax: 617-532-1033, e-mail: [info@syrris.com](mailto:info@syrris.com), Internet: [www.syrris.com](http://www.syrris.com), Sales Contact: Omar Jina, Head of Sales Syrris takes pride in creating extremely high quality, easy to use, products for chemists working in areas such as the pharmaceutical industry, academia, CROs and the petrochemical industry. Syrris' product range includes Asia, an advanced flow chemistry system and recent winner of the prestigious R&D 100 award, Atlas, an innovative range of fully automated batch reactor products, and Globe a manually operated jacketed reactor platform. Syrris also offers the Medstere software for suggesting novel bioisosteres to lead compounds. These versatile products cover a broad range of applications from synthesis, process optimization and reaction analysis to crystallization, calorimetry and scale-up. **215**

**TA Instruments**, 159 Lukens Drive, New Castle, DE 19720, 302-427-4000, fax: 302-427-4001, e-mail: [info@tainstruments.com](mailto:info@tainstruments.com), Internet: [www.tainstruments.com](http://www.tainstruments.com) Visit TA Instruments for thermal analysis, thermophysical properties, rheology and microcalorimetry solutions. We offer innovative technology and services for a wide range of materials characterization applications. Our Discovery Series DSC and TGA deliver unmatched performance and our ARES-G2 and new DHR-Series Rheometers set the standard for rheological measurements. Our NanoITC and NanoDSC calorimeters are benchmarks for life science applications. Through our recent acquisition of Anter Corporation, we now offer a complete line of thermophysical properties instrumentation including Flash Dfityfusivity, Thermal Conductivity and Dilatometry. **1115**

**Taylor & Francis Group LLC/CRC Press**, 6000 Broken Sound Parkway, NW, Suite 300, Boca Raton, FL 33487, 561-994-0555, fax: 561-361-6018, Internet: [www.chemistryarena.com](http://www.chemistryarena.com) Taylor & Francis Group - CRC Press, represented by its book and journal divisions, is a premier publisher of scientific and technical books, journals, and electronic references. Visit our booth to browse special offers on new and bestselling titles, including our flagship title, CRC Handbook of Chemistry and Physics. We also offer titles in biomaterials, drug delivery, and life sciences. Pick up free journal copies or sign up for our email list to receive exclusive offers. Please visit our Chemistry Arena website at [chemistryarena.com](http://chemistryarena.com) to access all things Chemistry including journal reviews, articles, the latest news, conference listings, and interviews. **1119**

**TCI America**, 9211 N. Harbortgate Street, Portland, OR 97203, 800-423-8616, fax: 888-520-1075, e-mail: [sales@tciamerica.com](mailto:sales@tciamerica.com), Internet: [www.tciamerica.com](http://www.tciamerica.com) TCI is a leading global manufacturer and supplier of specialty chemicals to the pharmaceutical, electronic, cosmetic, chemical, environmental and biotech industries. Drawing on over 80 years of synthetic organic chemistry experience, TCI develops new technology that produces rare and novel compounds. Our current catalog lists over 22,000 organic and biochemical products for use in research and production. Our manufacturing capabilities include multi step synthesis and continuous production from milligram to ton scale for custom and contract research services. Our modern facilities provide cGMP manufacturing with FDA validation. Please visit our website [www.tciamerica.com](http://www.tciamerica.com). **500**

**Tecan**, 9401 Globe Center Dr., Suite 140, Morrisville, NC 27560, United States, 919-361-5200, fax: 919-361-5201, Internet: [www.tecan.com](http://www.tecan.com), Sales Contact: Debbie Bowers, Director of Sales, Liquid Handling Robotics **201**

**Technical Sales Consultants, LLC**, 16 Manda Ct, Middletown, MD, United States 21769, 301-637-2435, fax: 301-560-5331, Internet: [www.techsalesconsultants.com](http://www.techsalesconsultants.com) TechSales is a small and agile consulting firm offering training and consulting services in business skills and biotech lab skills. We have experience in the pharmaceutical, biotechnology, and life science tools industries and a track record of improving performance in sales, service and marketing organizations. In collaboration with Shamrock Promotions Unlimited we can also help you with promotional items to keep your logo and message within plain sight and at close reach to your prospective customers. Also, we can help you with your item choice so as to optimize the most impressions per unit of time and the cost of impression. **1337**

**Teledyne Isco - Chromatography**, 4700 Superior St, Lincoln, NE 68504, 402-464-0231, fax: 402-465-3064, e-mail: [iscoinfo@teledyne.com](mailto:iscoinfo@teledyne.com), Internet: [www.isco.com](http://www.isco.com) The Teledyne Isco Chromatography product line includes the Combiflash Purification systems and stationary medias for purification of organic compounds in normal-phase and reversed phase separations, and Fraction Collectors and Detectors for bio-purification of proteins, peptides, and other biopolymers. **1509**

**ThalesNano Nanotechnology Inc.**, 7. Zahony u, Budapest, Hungary H-1031, 00 36 1 8808 500, fax: 00 36 1 8808 501, Internet: [www.thalesnano.com](http://www.thalesnano.com) ThalesNano is specialized in developing and providing continuous flow instruments for chemistry from milligram scale to Tonnes/annum, by exploiting benefits of combining microfluidics, mesofluidics and nanotechnology with flow chemistry. The company was founded in 2002 and is located in Budapest, Hungary but also has offices in the United Kingdom and United States. By the beginning of 2010 ThalesNano has built up a distributor sales channel located on 6 continents and in 53 countries. **418**

**The Chemistry Research Solution LLC**, 360 George Patterson Blvd., Suite 108, Bristol, PA, United States 19007, Internet: [www.tcrs.us](http://www.tcrs.us) The Chemistry Research Solution (TCRS) is a contract research organization that offers custom synthesis, medicinal chemistry research, process development/scale-up as well as analytical services. We provide all essential components for early drug discovery such as synthesis of chemical intermediates, process impurities, reference compounds, drug metabolites, and pro-drugs; lead generation and optimization; manufacture of small molecule APIs; bioconjugate chemistry and antibody-drug conjugates. Our newly refurbished facility is equipped with thirty fume hoods, two high-field NMR spectrometers, LC-MS, analytical/preparative HPLCs and all other equipment required for chemical synthesis up to kilogram-scale. Please visit our booth for more information. **1207**

**The New York Times**, On the Avenue Marketing Group, 613 South Avenue, Weston, MA 02493, 781-890-2661, fax: 781-890-2799, Internet: [www.ontheavenuemarketing.com](http://www.ontheavenuemarketing.com) Visit The New York Times booth for 50% off home delivery and receive a complimentary gift with your subscription! **1319**

**Thermo Scientific**, 355 River Oaks Parkway, San Jose, CA 95134, 800-532-4752, Internet: [www.thermoscientific.com](http://www.thermoscientific.com) Thermo Scientific Booth 1327 will showcase integrated laboratory workflow solutions for academia and industry. The new Thermo Scientific Nicolet iS50 FT-IR spectrometer embodies smarter FT-IR by allowing sampling from near to far infrared and Raman, NIR or ATR with the push of a button. The new Exactive PLUS Orbitrap LC-MS is the ultimate screening machine for identification and quanti-

fication of compounds in complex samples. The new TSQ 8000 Triple Quadrupole GC-MS identifies food and environmental contaminants and trace compound quantitation in forensic, toxicology and sport doping labs. See our solutions for FTIR, Fluorescence, UV-Vis, Raman, HPLC, GC/MS and LC/MS. **1327**

**Tosoh Bioscience LLC**, 3604 Horizon Drive, Suite 100, King of Prussia, PA 19406, 484-805-1219, fax: 610-272-3028, Internet: [www.tosohbioscience.com](http://www.tosohbioscience.com) **519**

**TSI, Inc.**, 500 Cardigan Road, Shoreview, MN 55126, 651-490-2738, fax: 651-490-3824, Internet: [www.tsi.com](http://www.tsi.com) TSI Incorporated serves a global market by investigating, identifying and solving the nanoparticle measurement needs of our customers. TSI partners with research institutions and customers around the world to set the standard for on-line, nanoparticle measurements relating to research and development, manufacturing process monitoring, inhalation toxicology, and nanoparticle exposure and risk. With headquarters based in the U.S. and field offices throughout Europe and Asia, TSI has established a worldwide presence in the markets we serve. **220**

**UBE America Inc.**, 6860 N. Broadway, Unit B, Denver, CO 80221, 303-412-5650, fax: 303-412-5592, e-mail: [toyokura@ube.com](mailto:toyokura@ube.com), Internet: [http://www.ube.com/index\\_US.php](http://www.ube.com/index_US.php) UBE is a diversified manufacturer with a core focus on the chemicals sector. Its chemicals are utilized in diverse applications ranging from articles for daily use to advanced applications for the aerospace industry. For example, UBE's chemicals can be found in everything from digital consumer electronics and household goods to automotive parts and pharmaceuticals. Our Denver Lab promotes new fluorine chemicals. **318**

**US EPA Green Chemistry Program**, 1200 Pennsylvania Avenue, Mail Code 7406M, Washington, DC 20460, Internet: [www.epa.gov/greenchemistry](http://www.epa.gov/greenchemistry) The U.S. EPA Green Chemistry Program is a voluntary, partnership program whose mission is to promote innovative chemical technologies that reduce or eliminate the use or generation of hazardous substances in the design, manufacture, and use of chemical products and processes. The Program accomplishes these goals through multiple activities including: The Presidential Green Chemistry Challenge Awards; designing tools, databases, and educational materials; and supporting research through grants and fellowships. **826**

**Vacuubrand, Inc.**, 11 Bokum Rd., Essex, CT 06426, 860-767-2562, fax: 860-767-2563, e-mail: [kpouliot@brandtech.com](mailto:kpouliot@brandtech.com), Internet: [www.vacuubrand.com](http://www.vacuubrand.com) VACUUBRAND will present corrosion-resistant oil-free vacuum pumps that feature exceptionally quiet operation and long service intervals. Pumps and vacuum systems are ideal for rotary evaporators, reactors, distillation, concentrators, vacuum ovens, gel dryers, filtration and more. VACUUBRAND VARIO™ vacuum systems self-optimize, eliminating test runs and programming, minimizing bumping, and completing evaporations up to 30 percent faster. We also offer 24VDC compact OEM vacuum pumps, rotary vane pumps, and new corrosion-resistant digital vacuum gauges and controllers. **1211**

**Vacuum Atmospheres Co.**, 4652 West Rosecrans Avenue, Hawthorne, CA 90251, 310-644-0255, fax: 310-970-0980, e-mail: [info@vac-atm.com](mailto:info@vac-atm.com), Internet: [www.vac-atm.com](http://www.vac-atm.com) Vacuum Atmospheres designs and manufactures controlled inert atmosphere glovebox systems and gas purification systems to maintain less than 1 ppmv of O<sub>2</sub> and H<sub>2</sub>O. Our Nexus II and Omni-Lab series systems provides the quality, performance and value that today's research demands. Please stop by our booth to discuss two new products: Glovebox Integrated Thin Film Deposition systems and see our new Glovebox Integrated Solvent Purification Systems. **1201**

**Valens Pharma Services**, 2359 Heathchase Drive, Hilliard, OH, United States 43026, 513-342-2766, Internet: [www.valenspharm.com](http://www.valenspharm.com) Information/Knowledge management services includes abstraction/indexing of journals, patents, reaction schemes and experimental details mining, patent search and analytics, rational drug design and competitive intelligence. Formulations, Preformulations, IND/NDA and ANDA submissions, Drug analysis, Biochemical and Microbiological studies **736**

**Vernier Software & Technology**, 13979 SW Millikan Way, Beaverton, OR 97005, 888-837-6437, fax: 503-277-2440, e-mail: [info@vernier.com](mailto:info@vernier.com), Internet: [www.vernier.com](http://www.vernier.com) Stop by the Vernier Software & Technology booth to see our exciting products for college chemistry such as our new Organic Chemistry with Vernier lab book. Our new Polarimeter graphs light intensity versus angle so students don't have to determine optical maximum with their eye. The new Constant Current System integrates a power source with a current sensor for easy electroplating and electrolysis. You can also try the Vernier Mini GC, the Melt Station Melting Temperature Sensor, and the SpectroVis Plus spectrophotometer with fluorescence capabilities. Use any of these devices on a computer or our stand-alone LabQuest lab interface. **1001**

**Vigor Gas Purification Technologies**, 5100 Westheimer Road, Suite 200, Houston, TX 77056, 716-568-0737, e-mail: [gzhong@vigor-glovebox.com](mailto:gzhong@vigor-glovebox.com), Internet: [www.vigor-glovebox.com](http://www.vigor-glovebox.com), Sales Contact: George Zhong, VP Vigor has extensive purification experience from materials to processes. We have developed innovative technologies and high quality for glovebox, and gas and solvent purification. Our glovebox quality is over order of magnitude better than industry standard. **321**

**VWR International LLC**, 100 Matsonford Road, Building One, Suite 200, Radnor, PA, United States 19087, 800-932-5000, fax: 610-386-1186, Internet: [www.vwr.com](http://www.vwr.com) VWR International, LLC, a global laboratory supply and distribution company with worldwide sales in excess of \$3.6 billion in 2010, has over 7,000 associates in more than 25 countries. VWR delivers services and supplies to the world's top pharmaceutical and biotech companies as well as industrial, educational and government organizations. For more information, phone 1-800-932-5000, visit [www.vwr.com](http://www.vwr.com). **1714**

**Wale Apparatus Co.**, 400 Front Street, Allentown, PA, United States 18055, (610) 838-7047, Internet: [www.waleapparatus.com](http://www.waleapparatus.com) Distributor of Corning Pyrex tubing and rod, J Young high vacuum greaseless stopcocks, NMR valves, greaseless spherical joints and high vacuum o-ring joints and of scientific glass working equipment and supplies. **1104**

**Wasatch Molecular**, 825 N. 300 W., Salt Lake City, UT, United States 84103, **203**

**Waters Corp.**, 34 Maple Street, Milford, MA 01757, 508-482-2000, fax: 508-482-2674, e-mail: [info@waters.com](mailto:info@waters.com), Internet: [www.waters.com](http://www.waters.com) Waters Corporation, the premium brand in the analytical instruments industry, creates business advantages for laboratory-dependent organizations by delivering practical and sustainable scientific innovation to enable significant advancements in healthcare delivery, environmental management, food safety, and water quality worldwide. Bringing keen understanding and deep experience to those responsible for laboratory infrastructure and performance, Waters helps customers make profound discoveries, optimize laboratory operations, deliver product performance, and ensure regulatory compliance. Pioneering a connected portfolio of separations and analytical science, laboratory informatics, mass spectrometry, as well as thermal analysis, Waters' technology breakthroughs and laboratory solutions provide an enduring platform for customer success. **1111**

**Wavefunction, Inc.**, 18401 Von Karman, Suite 370, Irvine, CA 92612, 949-955-2120, fax: 949-955-2118, e-mail: sales@wavefun.com, Internet: www.wavefun.com Wavefunction puts chemistry at your fingertips. Now available, iSpartan! A new app for the iPad/iPhone, providing significant capabilities from Spartan accessed from your mobile device. Spartan<sup>10</sup> accesses a full range of modern quantum chemical methods from a powerful and intuitive graphical interface, and serves as a primary research tool. Spartan Student offers a subset of Spartan's capabilities for use in the classroom/lab. Odyssey is a discovery-based learning tool for the general chemistry curriculum. Visit our booths to explore chemistry with advanced molecular modeling software. **1332,1404**

**WebAssign**, 1791 Varsity Drive, Suite 200, Raleigh, NC 27606, 919-829-8181, fax: 919-829-1516, e-mail: msantee@webassign.net, Internet: http://www.webassign.net WebAssign, the independent online homework and assessment solution, continues to innovate. WebAssign makes online homework easy by providing pre-coded questions from over 600 leading titles from every major publisher. New student tools and new faculty functionality make WebAssign your indispensable partner in education. Stop by our booth to learn more. **812**

**Welch-Illvac**, 5621 West Howard St., Niles, IL 60714, 847-676-8800, fax: 847-677-8606, e-mail: gdwelchvacuum.com, Internet: www.welchvacuum.com **530**

**Wilmad-LabGlass**, 1172 N.W. Boulevard, Vineland, NJ 08360, 856-691-3200, fax: 856-691-6206, e-mail: cs@wilmad-labglass.com, Internet: www.wilmad-labglass.com Wilmad-Lab-

Glass, an ISO 9001:2008 Certified Company, has been manufacturing and distributing laboratory and scientific glassware for over 70 years. Wilmad is a leading manufacturer of high precision engineered glass components. Wilmad is also the market leader in Nuclear Magnetic Resonance Sample Tubes (NMR) and Electron-Paramagnetic-Resonance (EPR). LabGlass manufactures and distributes a wide variety of specialty laboratory glassware products and equipment. **1607**

**Wilmington PharmaTech**, Pencader Corporate Center, 229A Lake Dr., Newark, DE 19702, 302-737-9916, fax: 302-261-7000, e-mail: info@wilmingtonpharmatech.com, Internet: www.WilmingtonPharmaTech.com Wilmington PharmaTech is a full-service company specializing in chemical process research and development for the pharmaceutical and biotechnology industry. We are currently developing new green (environment-friendly) processes for the synthesis of today's medicines. We also provide following services for pharmaceutical and biotech companies: cGMP Synthesis Salt and Polymorph Screening Process R&D Analytical GLP/GMP full Services FTE-Based Chemical Research Genotoxic impurities - Trace Analysis Bulk Intermediate Production Stable isotope Labeling Wilmington PharmaTech Pencader Corporate Center 229A Lake Drive, Newark, DE 19702, USA Phone: 302-737-9916 Fax: 302-261-7000 info@WilmingtonPharmaTech.com www.WilmingtonPharmaTech.com **1106**

**Wyatt Technology Corp.**, 6300 Hollister Avenue, Santa Barbara, CA 93117, 805-681-9009, fax: 805-681-0123, e-mail: info@wyatt.com, Internet: http://www.wyatt.com Wyatt Technology: Celebrating its 30th Anniversary! DAWN

multi-angle light scattering (MALS) instruments for absolute macromolecular characterization determine absolute molecular weights and sizes of proteins, polymers, nanoparticles. DynaPro dynamic light scattering (DLS) instruments include cuvette based DynaPro NanoStar and the DynaPro Plate Reader for automated DLS measurements in standard well plates for optimizing protein solutions in crystallography, oligomerization, or sizing nanoparticles. Möbius Zeta Potential instrument for measuring mobilities of proteins and nanoparticles as small as 1 nanometer. Eclipse Field Flow Fractionation (FFF) system separates and counts submicron particles. The ViscoStar viscometer will also be displayed. **911**

**Xigo Nanotools**, 704 Ginesi Drive, Suite 15, Morganville, NJ 07751, 914-882-3087, fax: 914-741-5983, Internet: www.xigonanotools.com **1826**

**Yamazen Science, Inc.**, 903 Sneath Lane, Suite 125, San Bruno, CA 94066, 650-877-7750, fax: 650-873-6496, e-mail: info@yamazenusa.com, Internet: www.yamazenscience.com Yamazen manufactures Japan's Leading Automated Flash Purification Systems & High Resolution Columns with 39 years of Chromatography experience. US Patented software (GREEN FLASH) gearing toward GREEN CHEMISTRY: Automated, Fast (4CV) & predictable Run Time & Low Solvent Usage. W-Prep: Intelligent, Fast, Dual & Parallel Prep LC - can run two columns simultaneously. Automatic two optimized gradients for multiple compound purification. Intelligent Fiber Optics Level Sensors for solvents and waste. TLC Image Reader for auto set-up & e-Note. Open & Modular Design for safety and simple, easy maintenance for users. Add-on RI or ELSD detection (dual viewing with UV). On-site application support **300**

## POWERFUL. PORTABLE. C&EN MOBILE.

ACS MEMBERS  
GET FREE ACCESS  
TO C&EN ISSUES!



Download the FREE app  
to access:

- Entire issues of C&EN  
—Free for ACS members
- C&EN's Latest News—Updated Daily
- CENTral Science
- Recent Chemistry Job Listings

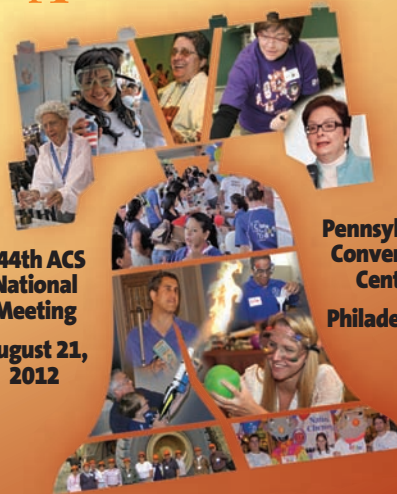
More information at [cenmobile.org](http://cenmobile.org)

Scan the  
code to view  
the video.



ACS Volunteers: Our Heritage, Our Future.

## 14th Annual ChemLuminary Awards



244th ACS  
National  
Meeting  
August 21,  
2012

Pennsylvania  
Convention  
Center  
Philadelphia

8:00 P.M. POSTER SESSION/SOCIAL HOUR  
8:45 P.M. DOORS OPEN  
9:00 P.M. AWARDS PRESENTATION  
10:00 P.M. CELEBRATION AND DANCING