

Expert Speakers Ignite 2004 CCPS Conference on Emergency Planning

The 2004 CCPS International Conference will bring together a veritable who's who in emergency planning for the upcoming conference, "Emergency Planning: Preparedness, Prevention, and Response," June 29-July 1, at the Caribe Royale Hotel in Orlando, Florida.

Representatives from the Department of Homeland Security, US Coast Guard, US Chemical Safety Board, US EPA, among others will discuss new governmental plans and regulations, case histories, and lessons learned from the best-prepared companies.

"If you work in a plant, or have corporate responsibility for preparedness or safety, this conference is for you," said Scott Berger, CCPS Director.

"Conference attendees will learn from leaders in the field what government and industry are doing to prepare for emergencies caused by accidental or terrorist events."

Department of Homeland Security representative Jan W. Mares will lead off the conference on Tuesday, June 29 with the keynote address. Mares is the business liaison director with the department's private sector office, which promotes, encourages, and monitors collaborative relations between the private sector, the department and other federal agencies.

Other notable speakers include Carolyn W. Merritt, Chairman and Chief Executive Officer, U.S. Chemical Safety and Hazard Investigation Board; Debbie Dietrich, Director, Chemical Emergency Preparedness

and Prevention Office, US EPA; and CDR Thomas Marian, Commanding Officer, US Coast Guard, Vessel Traffic Service, Houston/Galveston.

"Like all CCPS conferences, our speakers present, but also stay and talk," said Berger.

"The people who attend have an opportunity to build strong networks that will help them in their daily jobs."

Attendees will also benefit from the conference's comprehensive program, covering varied aspects of emergency planning.

"Prevention is the most effective response in stopping an accident," said Berger.

"But once an emergency occurs, the best way to reduce consequences is to be

prepared: to have the right equipment, to know the correct response, and have practiced the scenario. This conference provides this critical information from prominent experts in the field."

Conference sessions will include:

- Scenario development and planned response;
- Prevention, including inherent safety, facility siting, training, and security measures;
- Transportation mode selection and storage location, size and design;

- Response to incidents including community involvement, utilization of consequence modeling, and lessons learned from case histories and incident investigations; and
- Recent developments in legal and regulatory safety issues.

Attendees can also take advantage of pre-conference courses on Sunday, June 27 and Monday, June 28 on topics that include: implementing countermeasures, preventing human error, complying with US site and transportation security, managing chemical reactivity hazards, cybersecurity, and dust explosions.

For more information, conference registration, and a complete agenda, see <http://www.aiche.org/ccps/icw>.



The annual CCPS conference is an excellent opportunity to discuss the latest developments.

Conference leaders go in-depth on process safety topics.

Exhibiting and Sponsorship Opportunities

Be recognized as a key industry resource through exhibit and sponsorship opportunities at this year's event.

Conference and exhibit hours do not conflict, so representatives can generate business and attend this important conference. There is a 50 percent conference registration discount for up to four exhibitor personnel. Exhibitor/sponsors will receive the attendee list.

Call 212/591-7170 or e-mail denid@aiche.org. Exhibit space is limited.

**19th Annual CCPS
International
Conference & Expo:
June 29 - July 1
Caribe Royale Hotel
Orlando, FL**

Chemical Engineers and OSHA Form Alliance to Prevent Reactivity Hazards

Tapping into the expertise of chemical engineers from across the country, the federal government announced a new alliance in March with AIChE's Center for Chemical Process Safety (CCPS), the U.S. Environmental Protection Agency, and five other professional and trade organizations to promote safe storage, handling and processing of chemicals.

The agreement establishes the OSHA Alliance for Chemical Reactivity Hazard Management, which draws from the expertise of CCPS, the industry leader for safe-practicing standards, and others. The purpose of the Alliance is to raise understanding of these hazards and provide useful information to help prevent future incidents.

AIChE Executive Director John Sofranko noted, "AIChE is proud of the role CCPS has served in improving process safety and the continuation of that role with this important initiative."

Scott Berger, Director of CCPS, added, "CCPS' mission is to prevent catastrophic process safety incidents by developing new technologies and management practices and disseminating these

practices throughout industry. This alliance provides a unique and powerful opportunity to carry out our mission."

The Alliance will develop awareness and training materials to educate companies of all sizes on hazards presented by unstable chemicals and chemical mixtures that react unexpectedly. At the heart of the Alliance's work will be CCPS's recently published book, *Essential Practices for Managing Chemical Reactivity Hazards* (available free on the Internet at www.aiche.org/ccps/resources.htm). The Alliance will continue to promote the use of this free resource as well as develop supplemental resources to assist companies to improve practices for managing chemical and reactivity hazards.

The following organizations are signatories to the Alliance:

- The Occupational Safety and Health Administration
- U.S. Department of Labor
- The U.S. Environmental Protection Agency



Photo credit: Shawn T. Moore

OSHA Alliance for Chemical Reactivity Hazard Management Representatives, including John Sofranko, AIChE Executive Director, seated far right.

- The American Chemistry Council
- The Center for Chemical Process Safety
- The Chlorine Institute, Inc.
- Mary Kay O'Connor Process Safety Center of Texas A&M University
- The National Association of Chemical Distributors
- The Synthetic Organic Chemical Manufacturers Association

To learn more, visit: <http://www.osha.gov/dcsp/alliances/reactives/reactives.html>.

Check One Item off the 'Honey-Do' List:

AICHE MEMBER TESTS SWIMMING SPEED IN SYRUP

By Rick Moore, University of Minnesota

Ed Cussler has wondered for 30 years what it would be like to swim in a pool of honey. More specifically, the University of Minnesota chemical engineering professor and AIChE member has wondered how swimming in a pool filled with a substance of greater viscosity than water (i.e., a thicker, more resistant substance) would affect speed. (He speculated that it would make little difference.)



University of Minnesota swimmer Tony Swanson of Coon Rapids, Minn., displays a handful of undissolved guar from the bottom of the test pool in Cooke Hall.

Last summer, his query and theory were put to the test in an experiment he funded at the University of Minnesota that

was equal parts deep science and reality TV. Study participants, including swimmers from the Gopher men's and women's swim teams, swam trials in both a regular pool and a pool filled with 700 pounds of guar—a bean-extract thickener used in ice cream and shampoo—mixed with water.

"Eeww," said one swimmer upon exiting the pool to the slippery deck. "That stuff is just like snot on the bottom," added another. "It's so much fun."

All fun aside, the experiment yielded some interesting preliminary results. Across various strokes, times in the guar-filled pool were virtually the same as those in the regular pool.

"Any normal person would think you're going to slow down [in the guar pool]," points out Frank Bates, head of the chemical engineering department. "That there's no perceptible effect is counter-intuitive."

Cussler says there was a good deal of debate around the University among students and faculty prior to the experiment, and there were a number of professors who thought that times in the guar pool might be 10 percent slower. Ultimately, while the results seemed to confirm Cussler's speculation, he was even more pleased that students had a chance to test their theories in a slimy new realm.

Member Financial Benefits Expanded in 2004

AIChE is pleased to announce expanded personal financial benefits. Designed to fit the needs of members at every stage of their careers—professional practice, consultancy, retirement—these enhanced benefits include financial planning services, auto insurance, discount dental plan, life coverage, professional liability and members-only credit card services.

Financial Services

AIChE personal financial planning, provided by Grogan Financial Services, offers a financial roadmap for every stage of life: investment, college, insurance, estate, eldercare, and wealth preservation.

Personal consultation services help members select the best plan to build a savings or investment portfolio for their individual circumstances. Specialized education financial services also allow members to grow college funds. For more on comprehensive plans at affordable prices, see www.efs529.com/aichefinancial/ or www.efs529.com/aiche/.

Auto, Home, and Renters Insurance

This popular plan, provided by Liberty Mutual, is now available to members in all 50 states. The auto plan features discount programs for multiple drivers,

multiple cars, and safe drivers. Online quote information is available at www.libertymutual.com/lm/aiche.

Dental Insurance

The expanded AIChE Dental Plan, administered by Marsh, provides insurance coverage for the most basic dental care

and many specialty services. The plan covers 155 different dental services, many more than those covered by competing programs. Coverage is available for spouse and

children. This plan provides access to a large national network of dentists that offer services for a discounted fee.

10-Year Level Term Life Plan

With the 10-Year Level Term Life Plan, premiums and benefits remain level for 10 years, guaranteed. AIChE members may now be able to lock in the financial security provided by term life insurance. Members can build a plan to meet their needs, from \$100,000 up to \$2,000,000 of coverage (in \$10,000 units).



Professional Liability

In recent years, Professional Liability Insurance has become essential for chemical engineering professionals. In many cases, insurance is required just to bid on a contract. This group policy, written by chemical engineers, chemists, and insurance experts, offers broad coverage at an affordable price. Designed for chemical engineers, this plan provides coverage for defense expenses and settlement, as well as other special benefits and options.

Members-only Credit Card

The AIChE Credit Card, offered by MBNA includes low introductory APR, credit line up to \$100,000, no annual fee, balance transfer option, travel insurance, CD and money market savings accounts, and more. For the first time, student members are welcome to apply.

For more information on dental, term life plan, professional liability, and members-only credit card visit: <http://www.aiche.org/member/benefits/>.

EXXONMOBIL ANNOUNCES SCHOLARSHIP PROGRAM FOR AGRICULTURE STUDENTS

ExxonMobil is accepting entries for its 2004 "Mobilfluid 424 Scholarships," a college scholarship that provides \$4,000 to four students pursuing a college degree at an accredited U.S. agriculture school.

Scholarship winners will be selected based on their written essay or photo-essay. The theme of all four categories is centered around "Farming in 2010." Four winners will be selected by a panel of judges knowledgeable in today's agriculture industry. The deadline for entries is June 30 and winners will be notified by Aug. 1, 2004.

Applicants must submit a one page, single-spaced essay addressing one of the following topics: Farming Equipment in 2010; The Typical Farm in 2010; The Greatest Change in Farming from 2000-2010; or submit an original photo or drawing/graphic, along with 100 words or less, describing Agriculture in 2010.

For applications, official rules and more information for this year's Mobilfluid 424 Scholarship program, or information about last year's winners, visit www.mobil.com/agri.

AICHE 2004 Conference Calendar

For information on AIChE conferences, including program and registration details, visit: <http://www.aiche.org/conferences/>.

Offshore Technology Conference

May 3 - 6, Houston, TX • <http://www.otcnet.org/>

Process Development Symposium: Working Right on the Right Thing

June 20 - 23, Oak Brook Hills Resort, Oak Brook, IL
<http://www.aiche.org/industry/ccps/icw/>

19th Annual CCPS International Conference & Expo: Emergency Planning, Preparedness, Prevention, and Response

June 29 - July 1, Caribe Royale Hotel, Orlando, FL
<http://www.aiche.org/industry/ccps/icw/>

Safety in Ammonia Plants and Related Facilities Symposium

September 20 - 23, Hyatt Regency Denver, Denver, CO
<http://www.aiche.org/conferences/ammonia/>

2004 Engineering & Construction Contracting Conference (ECC)

October 28 - 29, The Broadmoor, Colorado Springs, CO
<http://www.ecc-conference.org/>

2004 Annual Meeting

November 7 - 12, Austin Convention Center, Austin, TX
<http://www.aiche.org/annual>

TEN YEARS OF SUPPORT TO YOUNG ENGINEERS:

AIChE's Minority Affairs Committee Student Awards

Spring is a busy season for AIChE's Minority Affairs Committee (MAC), as it receives dozens of applications for one of AIChE's largest student support programs.

Applications for this year's slate of Minority Affairs Committee student awards — the Scholarship Awards for Incoming College Freshmen; the Minority Scholarship Awards for College Students; and the Minority Affairs Committee Award for Outstanding Scholastic Achievement — are now being accepted. The deadline for applications is May 15, 2004.

The Minority Affairs Committee student awards are AIChE's broadest-reaching national scholarship program. The program presents multiple scholarships to both college-level chemical engineering students, and to high school students who plan to pursue a college degree in science or engineering. In fact, the MAC awards are currently AIChE's only national-level scholarship for high school students.

Since the Incoming Freshmen and College Student scholarships were first presented in 1994, the program has grown from two or three awards per year to as many as ten scholarships presented in each category.

The scholarship program is funded through an annual contribution by FMC Corporation, and by voluntary donations supplied by AIChE members.

Members may supplement their annual AIChE dues payments with a gift to support the program.

Individual awards for the Incoming College Freshmen and College Student scholarships are \$1,000.00 per recipient, and nominations may be made by the student or by a parent, guardian, teacher, or school counselor.

The Incoming College Freshmen Scholarship is based on the applicant's academic record, participation in school and work activities, reason for choosing science/engineering as a career path, and financial need. The College Students Scholarship is based in part on the applicant's academic record, career objectives and financial need, but it also takes into account the student's participation in AIChE student chapter and professional activities.

The Outstanding Scholastic Achievement Award, first presented in 1996, recognizes a chemical engineer student's outstanding academic and scholarly achievements, along with exemplary outreach activities. The Outstanding Scholastic Achievement Award recipient receives \$1,500.

Applicants for these awards must be members of a minority group that is under-represented in chemical engineering, i.e. African-American, Hispanic, Native American, or Alaskan Native.

In addition to financial support, the Minority Affairs Committee works to make mentoring a part of its award program. The group seeks to match its college scholarship recipients with AIChE professional members in order to provide students with additional support and career guidance. Both mentors and students gain from the program. In addition to technical information for research and exams, students receive first-hand knowledge of career life beyond the classroom. Mentors gain the satisfaction of passing their experience on to the next generation of chemical engineers.

If you are interested in mentoring a college scholarship recipient, contact the MAC awards chair Emmanuel Dada: emmanuel_dada@fmc.com

For more information on the Minority Affairs Committee student awards, as well as other AIChE student awards and scholarly competitions, please visit AIChE's student Web: <http://students.aiche.org/honors/>

The deadline for 2004 Minority Affairs Committee student award nominations is May 15.



Chemical engineering students mingle with company and university representatives at the North Central Regional Conference Career and Graduate School Fair.



A photo finish! Hydrogen Hurricane, the University of Tulsa's chemically-powered car, wins 2nd place at the Mid America Regional Student Conference Chem E Car Competition in April.

Regional winners will compete at the National Chem E Car competition at the 2004 AIChE Annual Student Meeting in Austin, Texas, November 7.

OBITUARIES

Saad Habbaba, 71, Gainesville, FL

Bryce I. Macdonald, Jr., 80, Asheville, NC

Frank Turk, 92, Baton Rouge, LA

Sidney Wommack, 84, Richland, MO

**Fellow member*