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# Chemistry Everywhere. The 18th Biennial Conference on Chemical Education, Iowa State University, July 18–22, 2004

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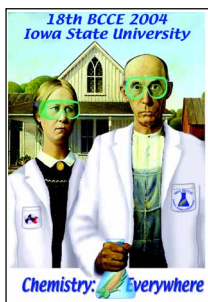
## Meeting Report

## Chemistry Everywhere

The 18th Biennial Conference on Chemical Education,  
Iowa State University, July 18–22, 2004

by K. A. Burke, Mark Freilich, Thomas J. Greenbowe, and William S. Harwood

The organizing committee invites you to the 18th Biennial Conference on Chemical Education (BCCE). It will be held July 18–22, 2004 at Iowa State University in Ames, Iowa, sponsored by the ACS Division of Chemical Education. This is an opportunity to share teaching and research ideas and learn from your colleagues. Like its predecessors, this BCCE is designed *by* chemical educators *for* chemical educators. These conferences have a long history of focusing on chemical education at all levels. Conference participants invariably benefit as much from informal conversations with each other as they do from the formal structured program.



## Plenary Speakers

For each full day of the conference, we have scheduled plenary speakers (early morning) and keynote presenters (late afternoon). The speakers promise a lively mix of opinions and ideas relevant to chemical education.

- **Charles Casey**, Department of Chemistry, University of Wisconsin–Madison and President (2004), American Chemical Society: “Challenges for Graduate Education in Chemistry”
- **Lillian McDermott**, Department of Physics, University of Washington–Seattle: “Discipline-Based Education Research: The Key to Student Learning in the Sciences”
- **Paula Heron**, Department of Physics, University of Washington–Seattle: “Student Understanding of Thermal Physics: Microscopic Particles and Macroscopic Processes”
- **George Boggs**, CEO and President, American Association of Community Colleges: “How Policy and Practice Influence Student Learning”
- **Roy Tasker**, School of Science, University of Western Sydney, NSW Australia: “Effective Use and Evaluation of Interactive Multimedia Resources for Learning”
- **John Gilbert**, Institute of Education, University of Reading, UK, Editor, *International Journal of Science Education*: “Models and Modeling in Chemical Education”
- **A NASA Space Chemist**, [name and title of talk not yet available]

## \*Conference Information\*

Visit the 18th BCCE Web site at

\* <http://www.chem.iastate.edu/bcce> \*

The site is updated regularly to present the most current and complete information possible. At the site you may

- Find an up-to-date list of symposia and workshops
- Register for the conference, on-campus housing, and on-campus dining (form available April 1, 2004).
- Review abstracts of accepted presentations, workshops, and plenary speakers.
- Request accommodation for special needs.
- Consult a complete motel and restaurant listing.
- Get travel directions and shuttle information.
- Find maps of Iowa, Ames, and Iowa State University, including the Iowa State Center complex, the focal point for most of the conference activities.
- Learn *much more* about the conference, Iowa State, Ames, and Iowa.

## Symposia

Nearly 60 symposia underscoring our theme of *Chemistry Everywhere* are being planned. Multiple symposia and panel discussions will explore the latest in chemical education research, including: NSF-sponsored programs; course management systems, Web-based education, and advances in educational technology; trends in laboratory-based education; pre-college through graduate curriculum; approaches to student-centered and peer-led teaching; real world chemistry applications; and publishing. Sessions begin Sunday afternoon, July 18. Visit our Web site for a complete list.\*

## Workshops

More than 60 workshops are scheduled. You will find something that will be of interest and value to you whether your students are at the elementary, middle school, secondary, or post-secondary level. Some workshops are of the make-and-take variety, while others are less hands-on and more how-to. Pre-conference workshops will begin July 14. All workshop fees have been set by the individual workshop



The Iowa State University Memorial Union. The "Four Seasons" statue in the foreground was created by sculptor Christian Peterson to pay homage to Iowa's Indian tribes.

organizer(s). Workshops usually have limited enrollment, so please sign up early! A current, preliminary schedule of workshops is available at the conference Web site.\*

## Exhibits

The exhibition space will be open from Monday through Wednesday, July 19–21, and during Sci-Mix and the Hawaiian Island Night festivities on Monday evening, July 19. The area is located in the first and second floor atria of the Scheman Building, the focal point for more than 60% of the organized conference sessions and a short walk from the plenary sessions, which will be held either in C. Y. Stephens Auditorium or Hilton Coliseum. Exhibitors representing all aspects of chemical education are welcome at the more than 60 booth spaces. Publishers, vendors of science supplies, instrument manufacturers, developers of educational software, and representatives of chemical education organizations and publications have reserved booths.

The 18th BCCE is honored to be among the first to present the History of Women in Chemistry's exhibit, "Her Lab in Your Life". The exhibit was developed by the Chemical Heritage Foundation and sponsored by the Hach Foundation. It consists of 12 panels and features 63 women chemists from different eras, representing many different disciplines and chemical industries. A "Women in Chemistry Education" symposium is being held in conjunction with this fascinating and timely exhibit.

## Social Event Highlights

### Sunday

- BCCE Fun Run: 4K at 8 a.m. and 8K at 9 a.m.
- BCCE Golf Outing at Veenker Golf Course: tee times between 11:30 a.m. and 1 p.m.
- BCCE Welcoming Ceremonies and Plenary Speaker in C. Y. Stephens Auditorium: 7 p.m. with a Social Hour following at 8:30 p.m.

### Monday

- Hawaiian Island Night featuring a Sci-Mix Poster Session, Exhibits, Live Music, Hula Dance Contest, cash

bar, and perhaps more! at 7 p.m. in the first and second floor atria of the Scheman Building

### Tuesday

- Conference Banquet at Hilton Coliseum: 6 p.m.; followed by a Demonstration Extravaganza presented by John Fortman and colleagues: 7:30 p.m.

### Wednesday Evening

- A comedy performed by the Galileo Players at C. Y. Stephens Auditorium: 7 p.m.
- Closing Ceremonies for the 18th BCCE and introduction of the 19th BCCE team at C. Y. Stephens Auditorium: 7:50 p.m.
- Ice Cream Social at the Scheman Building: 8:10 p.m., sponsored by the *Journal of Chemical Education* and 2YC<sub>3</sub>

## Registration, Housing, and Meals

**Registration.** The 18th BCCE registration book—where you may register, reserve campus housing, and sign up for a campus meal plan online—is available in PDF format at the conference Web site.\* Those with special needs will be able to identify the ways we can help to make their visit the most comfortable experience possible.

Printed registration books may be requested by contacting us by email at [bcce@iastate.edu](mailto:bcce@iastate.edu); use "BCCE Registration Book" as the subject line.

### On-campus Arrangements

**Accommodations.** To stay on the Iowa State University campus during the conference, choose either the more traditional student dormitory setting (Maple Dormitory) or the student apartment complex (Frederiksen Court). Both have ADA-compliant accommodations.

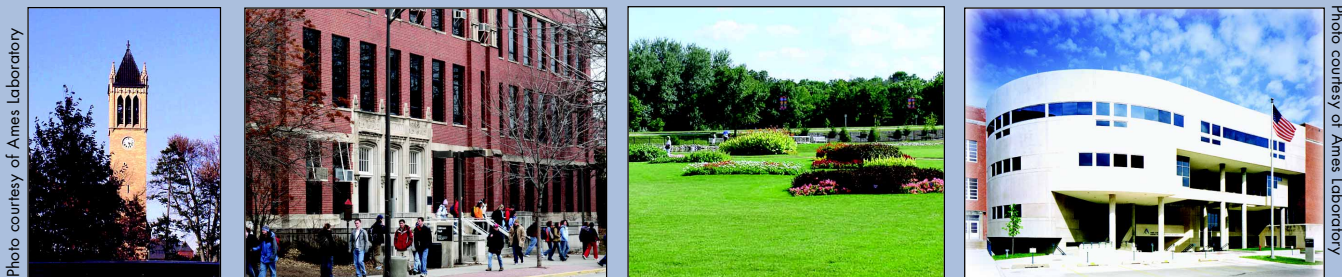
**Dining.** Participants who choose to dine on campus are encouraged to take their meals at the dining complex in the lower level of Maple Dormitory. Several meal plan options are outlined on our Web site.\* There is an option to have lunch on-site or to arrange for a sack lunch. There will be at least one vegetarian option at each meal.

### Off-campus Arrangements

**Accommodations.** If you would prefer to stay off-campus and have not yet made a reservation, please do so *immediately* since we are competing for rooms with the Iowa Games, Iowa's annual statewide "Olympic style" competition, which will be held in Ames from July 16–18. There will be more than 150 athletic teams reserving lodging for those nights. Blocks of rooms have been allocated for participants at each off-campus location. Find out about the amenities offered at these facilities via links from the BCCE Web site.

**Shuttle service.** There will be a free shuttle service, with one or more buses making continuous trips around a designated "conference loop". This loop will include motels south of the Scheman Building [The Hotel at Gateway (the official hotel conference headquarters), Comfort Suites, and Baymont Inn and Suites], Scheman Building, Maple Dor-

## Meeting Report



Scenes from the Iowa State campus, location of the 18th BCCE, from left: The Stanton Memorial Carillon performs a 15-minute concert every noon. Gilman Hall, home of the chemistry department, is named for Henry Gilman, the father of organometallic chemistry in the U.S.; his academic career at Iowa State spanned six decades. Reiman Gardens create a striking entrance to the university and the city of Ames. BCCE participants will receive a discount coupon toward the entrance fee; tours are planned. The Technical and Administrative Services Facilities building is adjacent to Gilman Hall and houses the U.S. Department of Energy's Ames Laboratory.

mitory, Frederiksen Court, and the science buildings area. (A map of this loop is posted on the BCCE Web site.<sup>\*</sup>) In addition to the BCCE shuttle, there is extensive campus-wide bus service available. Cy-Ride, the city-wide bus service, is available at minimal charge.

### Tours, Excursions, and Day Trips

Some of the tours, excursions, and day trips being planned are: Amana Colonies, Living History Farms, Adventureland, Jones County, John Deere production facility, Neal Smith National Wildlife Refuge–Prairie Learning Center, Mall of America, Madison County, Field of Dreams, a working Iowa farm, horseback riding, Reiman Gardens, and Des Moines Science Center, Botanical Gardens and Zoo.

### Travel Information

*By Car.* Iowa State University and Ames are centrally located in Iowa, readily accessible via interstate highways 80 and 35 (exit 111B) or U.S. Highway 30 (exits 46, 48, and 50) and U.S. Highway 69.

*By Plane.* The Des Moines International Airport is 40 miles south of Ames. Travel and Transport (800/747-8182) will help arrange your travel. They have discount airfares for United, Northwest, Delta, and American airlines, as well as a discount with Avis rental car company.

*Airport Shuttle Service.* After making your travel arrangements, Iowa State University Conference Services will help you arrange shuttle transportation from Des Moines to Ames and return via the 18th BCCE online registration page (the online registration form will be

available April 1, 2004). Shuttle arrangements will be available in either one-way (\$25) or round trip packages (\$50). Those who arrive at the Des Moines airport without having made prior arrangements for a shuttle may need instead to use a taxi, a rather costly option.

*Car Rental.* Major car rental agencies have in-terminal branches at the Des Moines International Airport. Avis is the official car rental company of the 18th BCCE.

*Private Planes.* The Ames Municipal Airport, located minutes away from the Scheman Building, receives small aircraft, including corporate jets.

*Bus.* Greyhound Lines serves Ames and Iowa State. The bus terminal is 14 blocks from the Scheman Building. Cy-Ride, our local city bus network, serves the terminal. There is taxi service available.

### Acknowledgments

The 18th BCCE Organizing Committee thanks the following companies and organizations for their generous sponsorship: Hayden-McNeil Publishers; McGraw-Hill Publishers; Prentice Hall Publishers; Aldrich Chemical Company; Dow Chemical Foundation; Flinn Scientific; The American Chemical Society, Ames Local Section; The Hach Foundation; The Chemical Heritage Foundation; Reiman Gardens; Iowa State University: College of Liberal Arts and Sciences, College of Education, Department of Chemistry, Department of Curriculum & Instruction, and President's Office; Indiana University–Bloomington; The University of Memphis; The *Journal of Chemical Education* and The Two-Year College Chemistry Consortium; The American Chemical Society, Division of Chemical Education.

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Catt Hall, named after Carrie Chapman Catt, a leader of the women's right to vote movement, houses the administrative offices of the College of Liberal Arts and Sciences.