

Conference Information

Table of Contents

The BCCE at a Glance	2
Welcome to the 19 th BCCE	3
The 19 th BCCE Organizing Committee.....	3
Letters of Welcome.....	5
Sponsors.....	9
Exhibitors.....	10
Conference Information	12
Sources of Meeting Information	
Internet Access	
Purdue Memorial Union Operating Hours	
Handouts	
Electronic Program Book	
Copy Services	
Meeting Facilities.....	14
Map and Building Abbreviations	
Getting around	
Meals.....	16
Dining on Campus (Map)	
Dining in West Lafayette (Map)	
Family and Leisure Activities.....	19
Tours	
Local Sites of Interest	
Tippecanoe County and the Surrounding Area	
Crafting	
Maps.....	21
Conference Events.....	25
ACS Exam Institute Committee Meetings.....	26
DivCHED Committee Meetings.....	26
Birds of a Feather Sessions.....	27
Plenary and Keynote Lecturers.....	28
Chemistry Update Speakers.....	33

The Technical Program – See the colored pages

Overview of the 19th Biennial Conference on Chemical Education

	Sunday	Monday	Tuesday	Wednesday	Thursday
Early Morning			5:45 AM Mole Breakfast ticket required Earhart Dining Court	6:30 AM Fun Run	
8:00 AM		8:00 - 8:50 AM Plenary Lecture Loeb Theater	8:00 - 9:05 AM Plenary Lecture Loeb Theater	8:00 - 8:50 AM Keynote Lectures Fowler Hall	
Morning Sessions		9:00 - 12:00 AM Workshops Symposia 12:00 - 12:45 PM Chemistry Update	9:15 - 12:15 AM Workshops Symposia 10:00 AM Exhibits open 12:00 - 12:45 PM Chemistry Update	9:00 - 12:00 AM Workshops Symposia 12:00 - 12:45 PM Chemistry Update	8:00 - 11:00 AM Workshops Symposia 11:15 - 12:05 PM Plenary Lecture 12:05 PM Closing Ceremonies
Lunch			12:30 AM - 1:30 PM Poster Sessions	12:30 AM - 1:30 PM Poster Session	
Afternoon Sessions	2:00 - 5:00 PM Workshops Symposia	1:00PM Exhibits open 1:15 - 2:05 PM Keynote Lectures 2:15 - 5:15 PM Workshops Symposia 5:00 - 5:45 PM Chemistry Update	1:15 PM - 5:00 PM Demonstrations Workshops Symposia 5:00 PM Exhibits close 5:00 - 5:45 PM Chemistry Update	1:15 PM - 5:00 PM Demonstrations Workshops Symposia 5:00 PM Exhibits close 5:00 - 5:45 PM Chemistry Update	
Evening	7:00 PM Opening Ceremonies 7:30 PM Plenary Lecture 8:30 PM Ice Cream Social	9:00 PM Exhibits close 6:30 - 9:00 PM Poster Sessions / Social	7:00 - 8:00 PM Plenary Lecture 8:00 - 10:00 PM Exhibits / Social	7:00 - 8:30 PM Plenary Demonstrations 8:30 PM - Al D. Hyde & the Key Tones	

Welcome to the 19th BCCE at Purdue University

The Organizing Committee of the 19th BCCE is pleased to welcome you to the Conference. For the past year the Committee and members of Purdue's faculty and staff have worked to provide a wide variety of workshops, presentations, plenary speakers, keynote speakers, demonstrations, exhibits, posters, and social events – experiences that are rich in ideas and the opportunities to share them. We believe you can leave this conference with insights that will help your contributions to chemical education. This is a large meeting with a variety of concurrent activities, an indication of the increasing importance of the Biennial Conferences to the chemical education community

We believe the facilities at Purdue University will meet your needs and the needs of the conference. If you have questions or need assistance we will be available at the registration area on Sunday and in Room 213 in the Stewart Center during the remainder of the meeting. We hope you find the 19th BCCE an exciting and worthwhile meeting.

The 19th BCCE Organizing Committee

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Division of Chemical Education, Inc.

AMERICAN CHEMICAL SOCIETY



2006

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Dear Division Members and Friends:

Welcome to the 19th Biennial Conference on Chemical Education. As you look through the program book to plan your time you will find many options available to you. What makes the Biennial Conference on Chemical Education such a valuable experience is not only the superb program but also the many chances to meet new friends and greet old ones. Congratulations to Bill Robinson, the 19th BCCE General Chair, to Program Co-Chairs Mickey Sarquis, Arlene Russell, and to all the members of the Program Committee on a job well done!

If this is your first time at the BCCE, welcome! The 19th BCCE will provide you an opportunity to become part of a growing community of chemical educators. The conference offers excellent opportunities for networking, so plan to attend the social events as well as the lectures and symposia. Of particular interest will be the Birds of a Feather sessions, which are informal groups of people interested in the same topic, and the Trading Post, which is how many of the materials will be distributed. In addition, be sure to visit the exhibits and participate in the workshops.

If you have attended a previous BCCE, please consider yourself an ambassador of the chemical education community. You will be able to greet many old friends, but also be on the lookout for new ones and welcome people you may never have seen before.

You will find that most of the committees of the Division of Chemical Education will be setting up posters outside the symposium rooms. Look for those posters, which describe the work of the committees, and note in the program the times at which the committees will be meeting. Unless otherwise stated, any meeting listed in the program is open to everyone and we welcome your participation.

The BCCE is rare in its focus on chemical education. It offers many growth opportunities and participation in a BCCE has been known to change lives. May your life be changed for the better this week.

Sincerely,

Loretta L. Jones
Chair, Division of Chemical Education
American Chemical Society



Department of Chemistry

July 28, 2006

Dear Participants of the 19th Biennial Conference on Chemical Education:

On behalf of the Chemistry Department at Purdue University, it is my privilege to welcome you to the 19th Biennial Conference on Chemical Education. The faculty, students and staff of the Chemistry Department are honored to host the BCCE this year. We are proud of our rich tradition in chemical education here at Purdue, which includes having the one of the first Ph.D. programs in chemical education in the country. Five of our faculty are carrying out research in chemical education, and are overseeing more than twenty-five students who are seeking graduate degrees in the field. More generally, our fifty faculty members have active research programs that span the broad range of chemistry, with interests in analytical chemistry, biochemistry, chemical education, inorganic chemistry, organic chemistry, and physical chemistry. We are also key participants in the burgeoning interdisciplinary research efforts on campus, including those in the newly formed Discovery Park, located just on the west edge of campus.

We hope that you will take the time during your stay to visit our department, which is located in two adjacent buildings, the R.B. Wetherill Laboratory of Chemistry and the H.C. Brown Laboratory of Chemistry. We have arranged for various ways that you can meet us and learn more about us, including posters that describe research in the various groups in the Department and faculty presentations in the Chemistry Update sessions in the program. We also encourage you to poke around the Department a bit to talk individually with faculty and students in your areas of interest. Finally, I hope you will enjoy the refreshments provided by the Department at the Monday evening SciMix session in the Union Ballrooms and East Lounge.

We are pleased that you are attending this conference, and hope that you enjoy both the conference and the surroundings during your stay.

Sincerely,

A handwritten signature in black ink that reads "Timothy S. Zwier".

Timothy S. Zwier
Professor and Head



COLLEGE OF SCIENCE

Jeffrey S. Vitter
Frederick L. Hovde Dean

July 2006

Dear Colleagues:

On behalf of the College of Science, I'm delighted to welcome you to Purdue University for the 19th Biennial Conference on Chemical Education.

In the College of Science, we're committed to excellence in basic research that feeds innovation and education that builds the pipeline for future stars in science, engineering, and technology. The solid education, broad perspective, and critical thinking skills our students learn here will help them shine, no matter which career path they take.

I'm particularly proud of our excellent Chemical Education group—one of the few groups studying the factors that affect how students learn chemistry and how best to teach chemistry—and initiatives like the Center for Authentic Science Practice in Education (CASPiE), the collaborative effort designed to enhance undergraduate students' chemistry education with research experiences.

I wish you a productive and successful conference.

Sincerely,

A handwritten signature in black ink, appearing to read "J.S. Vitter".

Jeffrey S. Vitter



College of Science

Mathematical Sciences Building • 150 N. University Street • West Lafayette, IN 47907-2067
(765) 494-1730 • Fax: (765) 494-1736 • dean@science.purdue.edu • www.science.purdue.edu/dean

PURDUE

UNIVERSITY

OFFICE OF THE PRESIDENT

July 30, 2006

Dear Conference Participants,

On behalf of the entire Purdue family, I would like to welcome each of you to the 19th Biennial Conference on Chemical Education. I am proud that Purdue's Department of Chemistry is hosting this important event in partnership with the Division of Chemical Education of the American Chemical Society.

If you have not been to Purdue before, I hope you will find time to get to know our campus and surrounding community. You will discover that this is a very warm and welcoming place, with a variety of cultural and social activities and many pleasant and convenient outdoor areas that lend themselves to stimulating conversation or quiet reflection. Although the campus may seem quite large at first, pedestrians can move through and around it very easily. A simple navigation trick is to use the Purdue Bell Tower as a reference point.

I know that a great deal of planning has gone into making this conference a success, and I believe the work you will do here is extremely important not only for you and your students, but for our entire nation. Stimulating interest and developing proficiency in chemistry and the other sciences must be a priority if America is to remain a strong and prosperous nation. I urge you to focus some of your discussion on strategies for attracting more young Americans to the scientific disciplines that are the keys to our future progress.

Thank you for coming to Purdue, and I hope you have a highly successful conference!

Sincerely,



Martin C. Jischke
President

Sponsors of the Conference

The Organizing Committee of the 19th Biennial Conference on Chemical Education is pleased to recognize the corporations, institutions, and societies who are supporting the Conference with their contributions.

Platinum Sponsors

Department of Chemistry, Purdue University
Hach Foundation
Hayden-McNeil Publishers
Purdue University Local Section of the ACS

Gold Sponsors

McGraw-Hill Publishers
Prentice-Hall Publishers
Vernier Software and Technology

Silver Sponsors

College of Science, Purdue University
Houghton-Mifflin Publishers
John Wiley and Sons Publishers
Journal of Chemical Education
Measurenet
Two-Year College Chemistry Consortium

In addition we wish to recognize the support of all of our participants. Without you, there would be no BCCE

Exhibitors

American Chemical Society
1155 16th St. NW
Washington, DC 20005

ACS Publications Office
1155 16th St. NW
Washington, DC 20005

American Nuclear Society
555 N Kensington Ave
La Grange Park, IL 60526

Anasazi Instruments, Inc.
4101 Cashard Ave, #103
Indianapolis, IN 46203

2008 BCCE - Indiana University
Steven Wietstock
251 Nieuwland Science Hall
Notre Dame, IN 46556

Benjamin Cummings
1301 Sansome St
San Francisco, CA 94111

Brooks/Cole, Thomson
10 Davis Dr
Belmont, CA 94002

Buck Scientific, Inc.
58 Fort Point Street
East Norwalk, CT 06855

Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

CEM Corporation
3100 Smith Farm Rd
Matthews, NC 28104

Center for Chemistry Education /
Terrific Science
4200 E University Blvd
Middletown, OH 45042

Chem 13 News
University of Waterloo
Chemistry Dept
Waterloo, ON N2L3G1 Canada

ChemEd 07
1508 W Mullberry
Denton, TX 76203

Chemical Heritage Foundation
315 Chestnut St.
Philadelphia, PA 19106

The Chemical Educator
7154 West State St. #301
Boise, ID 83714

Educational Innovations, Inc.
362 Main Ave
Norwalk, CT 06851

FizzBang Science
807 Murlay Dr
Plain City, OH 43064

Flinn Scientific
PO Box 219
Batavia, IL 60510

Hach Scientific Foundation
2114 North Lincoln
Loveland, CO 80538

Holy Mol-e Chemistry
1780 Crystal Ridge Way
Vista, CA 92081

Houghton Mifflin
222 Berkeley St
Boston, MA 02116

Institute for Chemical Education
UW-Madison Chemistry
1101 University Avenue
Madison, WI 53706

Journal of Chemical Education
UW-Madison Chemistry
1101 University Avenue
Madison, WI 53706

Key Curriculum Press
1150 65th St.
Emeryville, CA 94608

Latest Ideas Inc.
P.O. Box 1506
Clemson, SC 29631

McGraw-Hill Higher Education
Two Penn Plaza, 20th Floor
New York, NY 10121-2298

Measurenet Technology
4242 Airport Rd
Cincinnati, OH 45226

Merlot
1250 Bellflower Blvd
Long Beach, CA 90840-0901

MicroLab, Inc.
1700 W. Koch
Bozeman, MT 59715

Ocean Optics, Inc.
830 Douglas Ave
Dunedin, FL 34698

PASCO Scientific
10101 Foothills Blvd
Roseville, CA 95747

Pearson Custom Publishing
75 Arlington St.
Boston, MA 02116
Electricity

Peer-Led Team Learning/CASPIE
5500 N St Louis Ave
Chicago, IL 60625

The Pogil Project
Chemistry Department
Franklin and Marshall College
Lancaster, PA 17604

Prentice Hall
c/o Pearson Education
One Lake Street
Upper Saddle River, NJ 07458

S17 Science Supplies and Services
216-333 Clark Ave West
Thornhill, ON L3T1P3 Canada

Serena Software
P.O. Box 3076
Bloomington, IN 47402

Sigma-Aldrich
600 N Teutonia Ave
Milwaukee, WI 53209

SMG Lab Books LTD
7 Gretman Crescent
Thornhill, ON L3T5L9 Canada

Texas Instruments
1 Texas Inst.
P.O. Box 650311 M/S 3919
Dallas, TX 75265

Texas Lutheran University/NMR Mosaic
Department of Chemistry
Seguin, TX 78155

Vernier Software & Technology
13979 SW Millikan Way
Beaverton, OR 97005

W. H. Freeman & Company
Freeman, & Worth Publishing. Group
33 Irving Place
New York, NY 10003

Wavefunction, Inc.
18401 Von Karman Ave. # 370
Irvine, CA 92612

Web Assign
940 Main Campus Dr. Suite 210
Raleigh, NC 27606

John Wiley and Sons
111 River St
Hoboken, NJ 07030

Conference Information

Sources of Meeting Information

Members of the BCCE Organizing Committee will be available at the Registration Area on Sunday and in Room 211 of the Stewart Center during the remainder of the Conference.

Internet Access

When you pick up your registration you can obtain a user name and password that will allow you to use any of the computers in Purdue's ITaP computer labs or to log on to Purdue's wireless network. Computer labs are located in the Stewart Center, the Wetherill Laboratory of Chemistry, and other campus locations. Most academic buildings and the lounges in Hillenbrand Hall have wireless access.

Operating Hours Purdue Memorial Union

	Monday - Friday	Saturday & Sunday
Purdue Memorial Union/STEW Buildings	5:30 am - 12:00 am	5:30 am - 1:00 am
Union Market	7:00 am - 2:00 pm	Closed
Villa Pizza	10:30 am - 9:00 pm	10:30 am - 9:00 pm
Pappy's Sweet Shop	10:00 am - 4:30 p.m.	7:00 a.m. - 2:30 p.m.
Sagamore Restaurant	6:30 am - 1:30 pm	6:30 am - 10:30 am
Oasis	8:00 am - 2:00 pm	Closed
Freshëns	11:00 am - 8:00 pm	2:30 am - 8:00 pm
Starbucks	7:30 a.m. - 2:30 p.m.	Closed
Amusement Games	7:00 am - 12:00 am	7:00 am - 12:00 am
Recreation Center	12:00 pm - 11:00 pm (Mon. - Thurs.) 12:00 pm - 12:00 am (Friday)	12:00 pm - 12:00 am (Saturday) 12:00 pm - 11:00 pm (Sunday)
Check Cashing	9:00 am - 4:00 pm	Closed
Stewart Center Newsstand	7:30 - am - 5:00 pm	10:00 am - 5:00 pm Closed (Sunday)
Union Club & Front Desk	24 Hours	24 Hours

Handouts of Talks

Authors have been invited to provide a three-slide per page handout of their talk as a pdf file that can be printed. Registered participants have access to these files. The decision to make a handout available rests solely with the authors of the paper.

Electronic Program Book

A complete Program Book can be downloaded as pdf files from the BCCE website.

Copy Services

A copy center is available on the second floor of the Purdue Memorial Union and in the Chauncey Hill Mall

Americans with Disabilities Act

It is the responsibility of the individual to notify the 19th BCCE organizers in advance of any special needs. Purdue's conference staff will work with the BCCE organizers to assist in meeting the requirements of any participant in order to meet the conditions of the Americans with Disabilities Act.



The 20th BCCE

July 27 – July 31, 2008

Indiana University, Bloomington, IN

<http://bcce2008.indiana.edu>

**Steven Wietstock
General Chair**

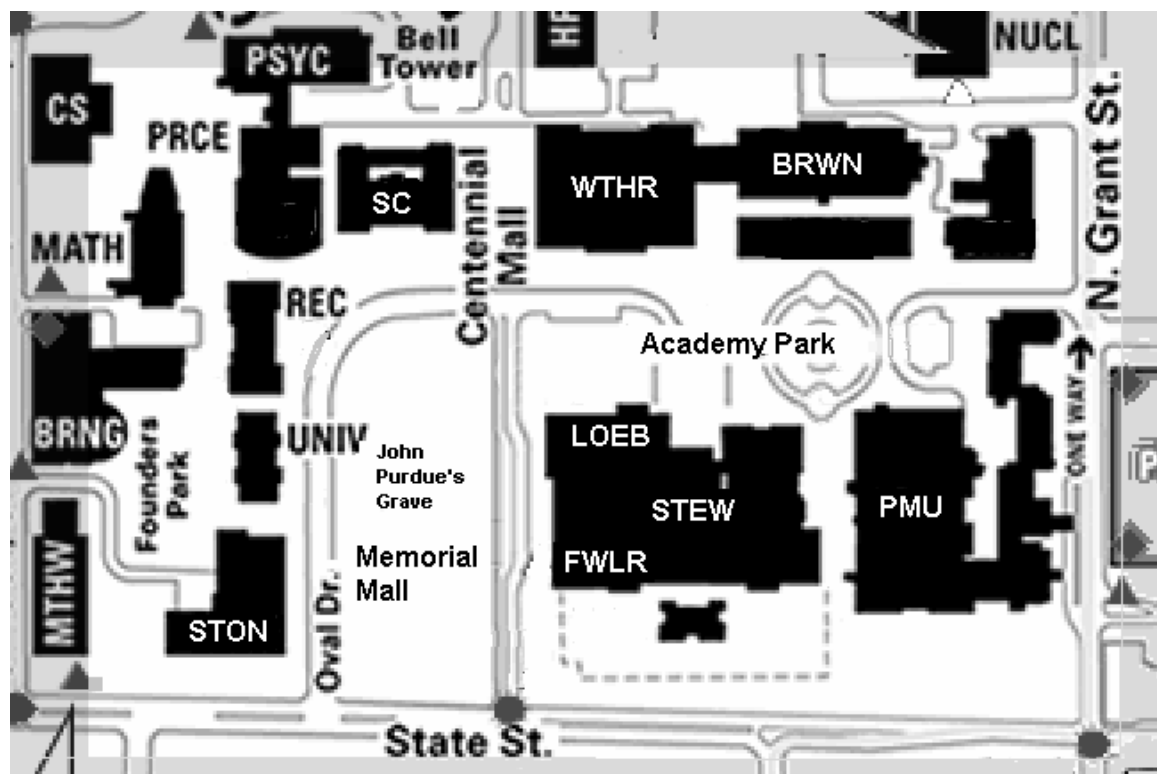
**Kate Reck & Regina Zibuck,
Program Chairs**

**Stop by our booth in the exhibit area
for more information, to contribute
ideas, or to volunteer.**

Meeting Facilities

Meeting Rooms

The majority of the 19th BCCE will be held in Purdue's meeting complex – The Stewart Center and the Purdue Memorial Union. The Stewart Center includes the Loeb Theater, Fowler Hall and 20 meeting rooms. The center also features a computer laboratory that can be used by participants. The Purdue Memorial Union (PMU) is adjacent to Stewart Center and houses the Union Club Hotel and an array of dining facilities. Two ballrooms accommodate our 58 exhibitors and our refreshments. Poster sessions are adjacent to the exhibits or are upstairs from the exhibits. The PMU also provides a check cashing service and ATM's. Only 500 feet from Stewart Center are the Wetherill and Brown Laboratories of Chemistry, which will house demonstration sessions and the majority of laboratory and computer based workshops. A few workshops will be held in Stone Hall and Stanley Coulter Hall because of their special facilities. These halls are equally close to the conference complex. Additional computer labs can be found in the Wetherill building and Stanley Coulter Hall.



BCCE Building Map and Room Abbreviations

BRWN: Brown Laboratory of Chemistry

LOEB: Loeb Theater (in Stewart Center)

SC: Stanley Coulter Hall

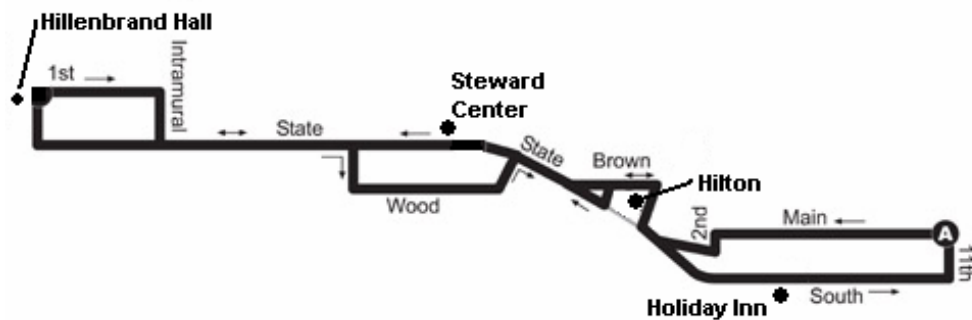
STON: Stone Hall

FWLR: Fowler Hall (in Stewart Center)

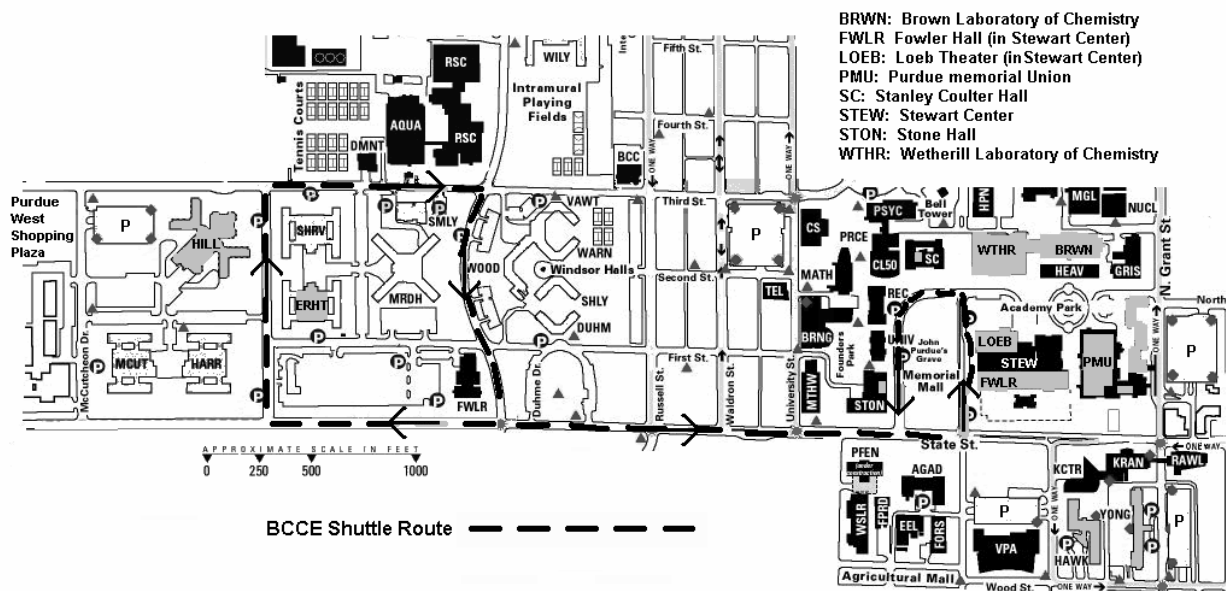
PMU: Purdue memorial Union

STEW: Stewart Center

WTHR: Wetherill Laboratory of Chemistry



The BCCE Shuttle will run between the Stewart Center during meal hours and after the evening sessions.



Taxis do operate in West Lafayette and Lafayette, but the fleet is small.

Meals

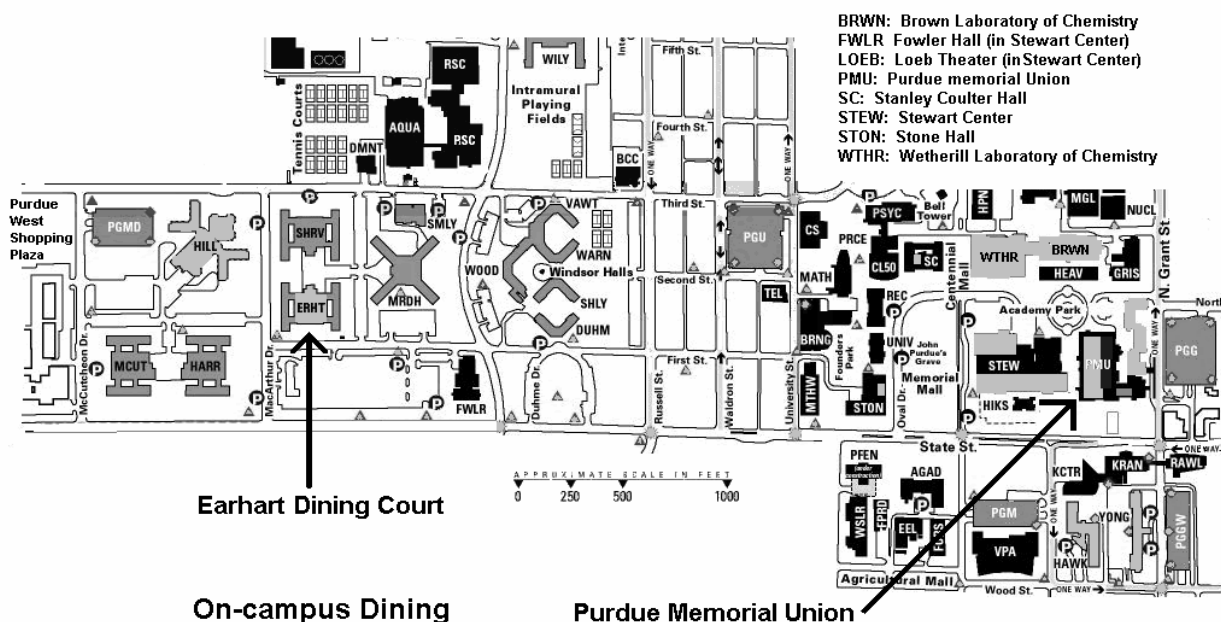
A number of very good food courts are available on campus. Inexpensive restaurants are located 2 - 4 blocks from the Memorial Union, Young Hall, and Hawkins Hall. The Purdue West Shopping Center contains three or four inexpensive restaurants within two blocks of Hillenbrand Hall. Several excellent restaurants are located in downtown Lafayette and can be reached by car or shuttle.

Dining on campus

The Purdue Memorial Union offers a variety of breakfast, lunch, and dinner selections, but check the schedule under Conference Information before you go.

- **Union Market** — An array of specialty food stations featuring hot entrees, carved-to-order oven roasted specialties, Indian and Asian foods, grilled sandwiches, stir-fry selections, Sara Lee deli, homemade soups, salad bar, fresh baked breads, cookies and desserts.
- **Freshens** — Pizza and bread sticks on the go, fast carryout service.
- **Pappy's Sweet Shop** — Serves burgers, grilled sandwiches, fries, and assorted snacks.
- **Villa Pizza** — Serves a variety of Italian foods
- **Oasis Cafe** — Deli items
- **Starbuck's Coffee** — Coffees and pastries
- **Sagamore Restaurant** — On the second floor of the PMU; a slightly more upscale room for breakfast and/or lunch with table service.

Earhart Dining Court Those choosing the meal plan will have their meals at the award-winning food court in Earhart Hall, across the street from Hillenbrand Hall. Individual meals are also available but must be paid for with cash at the door.



Dining in West Lafayette

An area map follows.

Chauncey Hill Mall and Northwestern

Arby's Roast Beef

135 S. Chauncey Avenue,
765-743-6311

Basil Thai

135 S. Chauncey Avenue,
765-743-3330

Blue Nile Mediterranean

117 Northwestern Avenue, 765-743-9330

Boiler Market

320 W. State Street, 765-746-0161

Brother's Bar & Grill

306 W. State Street, 765-746-1090

Cafe Royale

130 Northwestern, 765-746-1000

Captain Gyros

132 Northwestern Avenue, 765-743-7170

Carni's Big Top

300 W. State Street, 765-746-3277

The Chocolate Shop (Harry's)

329 W. State Street, 765-743-1467

Einstein's Bagels

201-203 Northwestern Avenue 765-743-8988

Fazoli's Italian Restaurant

135 S. Chauncey Avenue
765-743-1379

FuLam Chinese Restaurant

135 S. Chauncey Avenue
765-743-0300

Hotzy

204 South Street, 765-743-3333

Jake's Roadhouse

135 S. Chauncey Avenue, 765-743-5253

Jimmy John's Subs

134 W. State Street, 765-743-8200

Khana Khazana Indian Grill

108 Northwestern Avenue, 765-743-1223

La Bamba Mexican Restaurant

134 State Street, 765-743-2311

Lovshack

311 W. State Street, 765-743-3700

Masala Kitchen

117 Northwestern Avenue, 765-743-5601

Olive House

200 South Street, 765-743-5649

Panini Deli

128 Pierce Street, 765-743-7907

'The Parthenon Greek Meals

135 S. Chauncey Avenue,
765-743-6778

'Pita Pit

135 S. Chauncey Avenue,
765-743-8743

Pizza Express

135 S. Chauncey Avenue,
765-743-3400

Smoothie King

300 W. State Street, 765-746-5464

Taco Bell

135 S. Chauncey Avenue,
765-743-4433

Triple XXX

2 N. Salisbury Street, 765-743-5373

Vienna Espresso Bar & Bakery

208 South Street, 765-743-4446

Village Coffee House

100 Northwestern Avenue, 765-743-5316

Wabash Yacht Club

135 S. Chauncey Avenue, 765-743-6075

Levee Plaza/Wabash Landing Area

Bruno's Pizza and Italian Specialties

212 Brown Street, 765-743-1668

Buffalo Wild Wings

360 Brown Street, 765-743-1188

Bombay Indian Restaurant

111 South River Road, Suite B, 765-746-2345

China 1 Buffet

132 Howard Street, 765-743-9988

El Rodeo

140 Howard Avenue, 765-743-6662

Great American Grill

256 E. State Street, (inside Hilton Garden Inn),
765-743-2100

Happy China

219 E. State Street,
765-743-1666

Jersey Mike's Subs

124 S. River Road, 765-743-1100

La Fiesta Express Burrito

138 S. River Road,
765-743-9899

Marco Pizza

227 State Street, Suite G, (River City Market),
765-746-1414

McDonald's

124 E. State Street, 765-743-6069

Moe's Southwest Grill

332 E. State Street, 765-743-5000

Panera Bread

328 E. State Street, 765-746-2400

Potbelly Sandwiches

111 S. River Road, 765-743-2993

Puccini's Restaurant

300 Brown Street, 765-746-5000

River Rock Grill

360 Brown Street, 765-743-0696

Roly Poly

340 E. State Street, 765-746-5500

Scotty's Brewhouse

352 E. State Street, 765-746-2113

Silver Dipper Ice Cream

201 E. State Street, 765-743-7511

Snowbear Frozen Custard

338 E. State Street, 765-746-2930

Sofra Turkish Cuisine

213 E. State Street, 765-743-2111

Starbucks

342 E. State Street, 765-746-1674

Wendys Old Fashioned Hamburgers

252 E. State Street, 765-743-5885

Purdue West

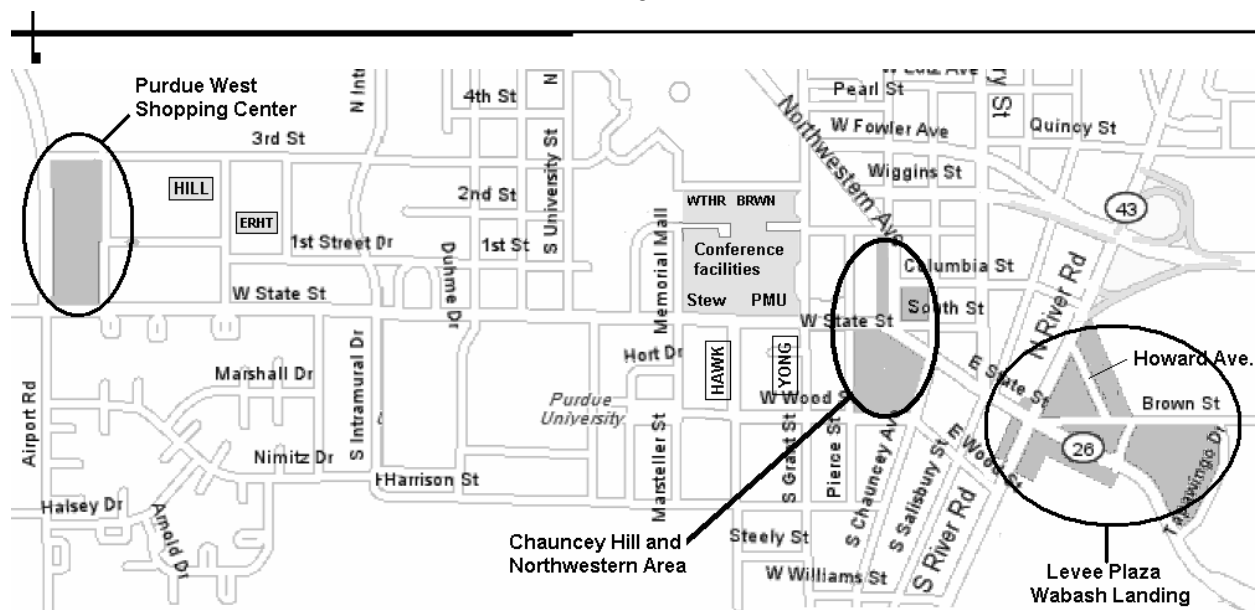
Dairy Queen

Casablanca, Moroccan Cuisine

Papa John's

Seattle Beanery

Subway Sandwiches & Salads



Family and Leisure Activities

Tours

We have planned the following tours for participants, but note that one or more may be canceled if the demand is too low. Sign up for these tours on the registration forms or on the Conferences' web registration site. If a tour is cancelled, your fee will be refunded.

The Children's Museum of Indianapolis. The museum is the largest children's museum in the United States with a wide collection including ScienceWorks, in the Dow Science Center, a hands-on science gallery that encourages visitors to test scientific principles for themselves. If you don't have a child, borrow one, it is worth a visit. Sunday July 30, and Tuesday, August 1. Cost: \$28. Free infant below age 2

The Indianapolis Zoo, Indiana State Museum, Eiteljorg Museum of American Indians and Western Art, and NCAA Hall of Champions. The bus will stop at two locations, the zoo and the Museums/NCAA complex. All are in the White River State Park and are within walking distance. The Circle Center Mall is within walking distance of the museums for those interested in shopping. Monday July 31, Wednesday, August 2. Cost: \$25 for transportation only. Admission fees are participants' responsibility.

Indianapolis Motor Speedway and Museum. Monday July 31 Cost \$23; Free under 5

Local Sites of Interest

The **Recreational Gymnasium** provides squash, racquetball, tennis, basketball, handball, weight lifting, exercise room, running tracks, volleyball, and a new aquatic center to conference attendees. For \$5.00 a day you can use any of the facilities. Hours are 6:30 AM –8:00 PM M-F, and 1:00-8:00 PM SS. See <http://www.purdue.edu/recsports/>

Two **18-hole golf courses** are available at Purdue. One was designed by Pete Dye. Just north of West Lafayette is Coyote Crossing, designed by Hale Irwin. See <http://www.purdue.edu/Athletics/golf/>

West Lafayette's Happy Hollow Park provides a picnic area and playground equipment within a few miles of campus.

Columbian Park, in Lafayette, provides a zoo, picnic areas, rides, and playground equipment as well as a water park, Tropicanae Cove.

Imagination Station is a hands-on, interactive science and space museum, a place for children and their families to explore the world of science, engineering and technology. See <http://www.nlci.com/imagination/>

Christina and Company, Inc. Salon and Day Spa. Need a manicure, a pedicure, or a massage? Consult Christina and Company's web page and choose how to spend the day. You can find prices for manicures and pedicures under "nail services." Massages are included under "spa services." Be sure to browse through the "gift packages." The "Calming Package" that includes a massage, manicure, and pedicure sounds like a winner! <http://www.spasalon.com/christinaspa/index.htm>

Tippecanoe County and the surrounding area

Fort Ouiatenon was established by the French in 1717 and is one of the earliest settlements in what was to become the State of Indiana. A replica blockhouse, built in 1930, is open to the public with interpretive exhibits which tell the story of the fort.

The **Tippecanoe Battlefield** marks the site of the November 7, 1811 Battle of Tippecanoe between the United States forces led by William Henry Harrison and representatives of Tecumseh's Native American confederation. A museum tells the story of the Battle, describes the early lifestyles in the area, explains, and gives information about the dynamic leads — Tecumseh, Harrison, and The Prophet. The Presidential Campaign of William Henry Harrison included the famous political slogan, "Tippecanoe and Tyler, Too!"

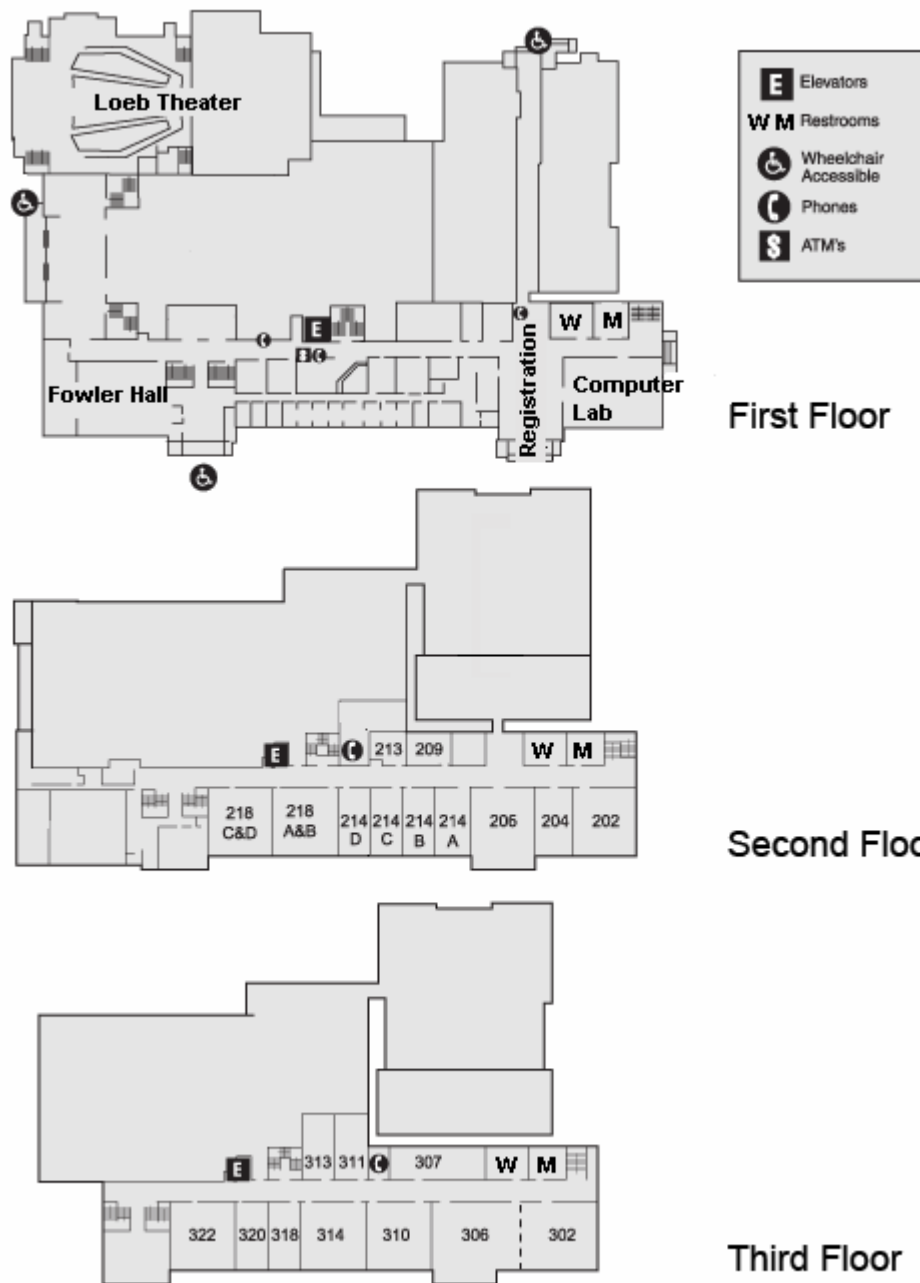
Wolf Park, one of the few research facilities of its kind, is dedicated to research on the gray wolf. A visitor's center allows year-round viewing. A herd of American Bison is kept at the park as part of an ongoing study of the interaction between bison and wolves. See <http://www.wolfpark.org/>

The **Wabash and Erie Canal** passed through Lafayette. A segment of the canal and an interpretative museum is located in Canal Park in Delphi, a 25-minute drive. See www.wabashanderiecanal.org

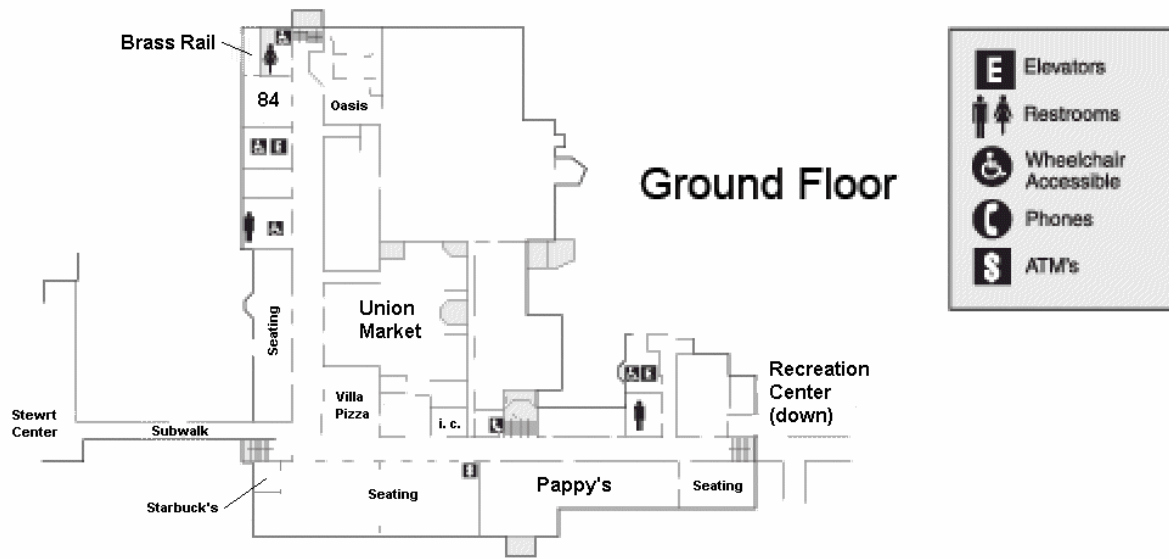
Canoe trips of various lengths are available on the Tippecanoe River and Sugar Creek.

Prophetstown State Park, located where the Tippecanoe River meets the Wabash River (right off I-65 about 10 miles north of), provides camping, hiking, birding and biking. The park includes restored prairie and other habitats such as wetlands, wet slopes called *fens*, and open woodlands. Native American woodland culture and lifeways and American farming practices and farm lifestyles of the 1920s can be experienced through a unique partnership with the Museum at Prophetstown. Camping facilities include 55 full hookup sites and 55 sites with electricity. For reservations see http://www.in.gov/dnr/parklake/properties/park_rates_fees.html.

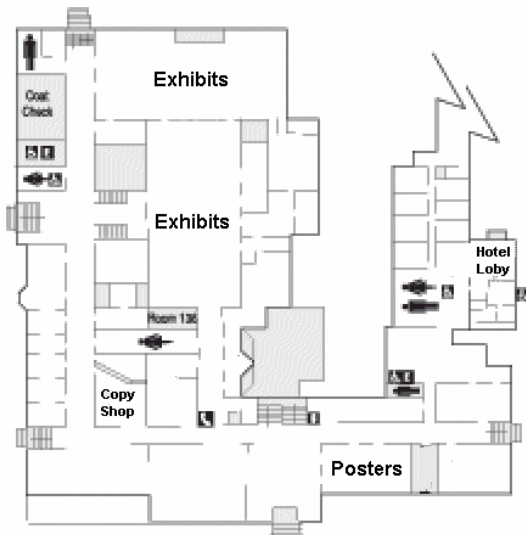




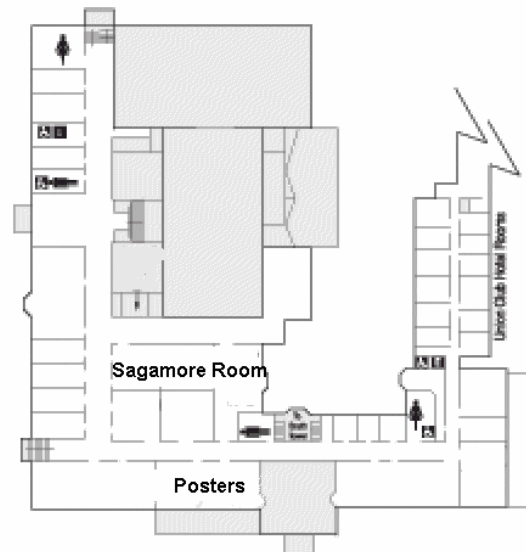
Stewart Center Floor Plans



Main Floor



Second Floor



Purdue Memorial Union Floor Plans



Wetherill and Brown Laboratories of Chemistry Floor Plan

Conference Events

Sunday, July 30

Tour the Children's Museum of Indianapolis.

9:00 AM – 5:15 PM, Depart Stewart Center

Plenary Lecture: L1 High performance chemistry: Cars and beyond

7:00 PM – 8:15 PM Loeb Theater

2YC₃ – J. Chem. Ed. Ice Cream Social

8:30 Academy park

Monday, July 31

Tour the Indianapolis Zoo, Indiana State Museum, Eiteljorg Museum of American Indians and Western Art, and NCAA Hall of Champions.

9:00 AM – 4:30 PM, Depart Stewart Center

Indianapolis Motor Speedway and Museum

8:30 AM – 1:30 PM, Depart Stewart Center

Exhibits / Posters / Social

6:30 PM – 9:00 PM Purdue Memorial Union

See the exhibits and posters. Cash bar and refreshments

Tuesday, August 1

Tour the Children's Museum of Indianapolis.

9:00 AM – 5:15 PM, Depart Stewart Center

Plenary Lecture: L4 The Secret Life of Food

7:00 PM – 8:00 PM Loeb Theater

Exhibits / Posters / Social

8:00 PM – 10:00 PM Purdue Memorial Union

Exhibits. Cash bar and refreshments

Wednesday, August 2

Fun Run

6:30 AM

Tour the Indianapolis Zoo, Indiana State Museum, Eiteljorg Museum of American Indians and Western Art, and NCAA Hall of Champions.

9:00 AM – 4:30 PM, Depart Stewart Center

Plenary Lecture: L5 Creative demo tales from two continents

7:00 PM – 8:30 PM WTHR 200

Al D. Hyde and the Key Tones

8:30 Purdue Memorial Union Ballroom

ACS Exam Institute Committee Meetings

Board of Trustees, ACS DivCHED Examinations Institute

Saturday, 2:00 PM

STEW 214D

General Chemistry Committee

Saturday 9:00 AM – 5:00 PM, Sunday, 9:00 AM – 12:00 PM

STEW 218AB

Inorganic Chemistry Committee

Saturday 9:00 AM – 5:00 PM, Sunday, 9:00 AM – 12:00 PM

STEW 218CD

DUCK

Saturday 9:00 AM – 5:00 PM, Sunday, 9:00 AM – 12:00 PM

STEW 214B

High School Exam Committee

Saturday 9:00 AM – 5:00 PM,

STEW 214A

Biochemistry Committee

Saturday 9:00 AM – 5:00 PM

STEW 214C

Paired Question Second Semester Exam Committee

Sunday 9:00 AM – 12:00 PM

STEW 214A

Exam Institute Dinner

Saturday evening at a site to be announced

Division of Chemical Education Committee Meetings

Committees of the Division of Chemical Education have been invited to present posters describing their activities. These will be posted in the second and third floor corridors of the Stewart Center.

Board of Trustees, ACS DivCHED Examinations Institute

Saturday, 2:00 PM

STEW 214D

Biennial Conference Committee

Sunday, 9:00 AM
STEW 311

Committee on Computers in Chemical Education, closed meeting, lunch

Monday, 12:00 PM
PMU 84

Buy lunch in the PMU Union Market and join the committee in the Brass Rail.
The Brass Rail is a separate room inside PMU 84.

New Member Committee, lunch

Monday, 12:15 PM
PMU 84

Buy lunch in the PMU Union Market and join the committee in Room 84.

Committee on Computers in Chemical Education, open meeting

Tuesday, 8:00 AM
STEW 313

Chem Ed Research Committee

Tuesday, 7:00 PM
STEW 306

Regional Meetings Committee, lunch

Wednesday, 12:15 PM
PMU 84

Buy lunch in the PMU Union Market and join the committee in Room 84.

Birds of a Feather Sessions

Lecture Demonstrators, breakfast

Monday, 7:30 AM
PMU – Brass Rail

Buy breakfast in the PMU Union Market and join the committee in the Brass Rail. The Brass Rail is a separate room inside PMU 84.

Great Lakes Regional POGIL Network

Tuesday, 8:00 AM
STEW 214D

Teaching Nanotechnology in the Non-majors Class

Tuesday, 8:00 AM
STEW 311

Lab Coordinators & Others Who Make Teaching Labs Happen, lunch

Tuesday, 12:15 PM

PMU 84

Buy lunch in the PMU Union Market and join the group in Room 84.

Teaching First-Year Chemistry to Less-prepared Students

Wednesday, 12:30 PM

STEW 311

Getting Started Publishing in the Journal of Chemical Education

Wednesday, 8:00 AM

STEW 313

Green Chemistry Educators

Wednesday, 12:00 PM

Site to be announced

Plenary and Keynote Lecturers

Abstracts are available in the Technical Program in the colored pages.

Sunday, July 30 evening

Plenary Lecture: L1 High performance chemistry: Cars and beyond

7:00 PM – 8:15 PM Loeb Theater

Timothy D Ruppel completed undergraduate and graduate studies at Michigan State University in the dual fields of Criminal Justice and Chemistry, specializing in the area of Forensic Chemistry. He has worked as a law enforcement officer in several capacities including uniformed patrol, crime scene investigation, drug and narcotic investigations and laboratory analysis of physical evidence. In laboratory analysis of physical evidence he concentrated in the areas of drug identification and forensic toxicology using gas chromatography and mass spectrometry and specialized in an array of sample introduction techniques and method development for gas chromatography. Mr. Ruppel took his specialization to PerkinElmer Corporation, a leading instrument manufacturer of sample introduction techniques for gas chromatography. He has served at PerkinElmer for 20 years as a Senior Product Specialist in the areas of gas chromatography and mass spectrometry

Joseph Turpin is engaged in early phase process research and development, and the application of analytical technology in support of new drug development. His interests lie in laboratory information management, instrumental methods of analysis and laboratory automation. A native of Indiana, Mr. Turpin grew up with the roar and high technology of Indy car engines nearby, and served as a fuel analysis consultant for USAC and IRL for ten years.

Monday, July 31 morning

Plenary Lecture: L2 Does Chemical Education Research Have Answers to offer the Chemistry Community?

8:00 AM – 8:50 AM Loeb Theater

Diane M. Bunce completed a BS in chemistry from Le Moyne College in Syracuse, NY, a Masters of Art in Teaching from Cornell University and a PhD in Chemical Education from the University of Maryland. Diane taught high school for six years and has been on the faculty at Catholic University since 1985. She currently serves as editor for the chemical education research feature for the Journal of Chemical Education. In 2000, Diane served as Chair of DivCHED and has been a member and Chair of the Chemical Education Research Committee of DivCHED (1997-1999). Her professional work has included curriculum development for the ACS textbooks ChemCom, Chemistry in Context, and Chemistry; chapters in Teaching Resources for the Chemistry Instructor, Survival Handbook for the New Chemistry Instructor, and Applying the National Standards to the Teaching of Chemistry; and research articles in the Journal of Chemical Education, Journal of Research in Science Education, and Chemical Educator. The main focus of her work has been student-centered learning whether the student is a high school or college student, high school or college teacher. Diane is also known for her love of Beatles music and as a teenager attended Beatles' concerts at Forest Hill, NY and Shea Stadium.

Monday, July 31 Afternoon

Keynote Lecture: K1 How To Get Students Actively Involved In Learning, Even If You Have 200 Of Them In The Class

1:15 PM – 2:05 PM STEW 302

Richard M. Felder is Hoechst Celanese Professor Emeritus of Chemical Engineering at North Carolina State University. He is coauthor of the text used in the introductory chemical engineering course by most American and many international chemical engineering departments and has over 200 papers on chemical process engineering and engineering education. Dr. Felder received his B.Ch.E. degree from the City College of New York and PhD. in chemical engineering from Princeton University. He worked for the Atomic Energy Research Establishment (Harwell, England) and Brookhaven National Laboratory before joining the NCSU faculty in 1969. His honors include the R.J. Reynolds Award for Excellence in Teaching, Research, and Extension; the AT&T Foundation Award for Excellence in Engineering Education; the Chemical Manufacturers Association National Catalyst Award; the ASEE Chester F. Carlson Award for innovation in engineering education; the AIChE Warren K. Lewis Award for contributions to Chemical Engineering Education; the ASEE Chemical Engineering Division Lifetime Achievement Award for Pedagogical Scholarship; and a number of national and regional awards for his publications on engineering education. Since 1991 he has co-directed the National Effective Teaching Institute under the auspices of the American Society for Engineering Education (ASEE)

Keynote Lecture: K2 A Look at the 'drivers' of science education reform

1:15 PM – 2:05 PM STEW 206

Gerald Wheeler is Executive Director of NSTA, the National Science Teachers Association. Previously, he was a Professor of Physics at Montana State University, Director of the MSU

Science/Math Resource Center, Professor of Physics at Temple University, and Program Director for the American Association for the Advancement of Science (AAAS) in the area of Public Understanding of Science and Technology. Wheeler received his BS from Boston University with a major in science education and his PhD. at the State University of New York (SUNY) at Stony Brook in experimental nuclear physics. Between undergraduate and graduate school, he taught high school physics, chemistry and physical science. He is a former President of the American Association of Physics Teachers, a Fellow of the W.K. Kellogg Foundation and the AAAS. His numerous publications include books, articles, abstracts, and reviews. Most recently, he has been promoting telecomputer networks to bring resources to teachers and students.

Keynote Lecture: K3 Beginning Chemistry: Firing Their Imaginations

1:15 PM – 2:05 PM Loeb Theater

Richard N. Zare is the Marguerite Blake Wilbur Professor in Natural Science at Stanford University with an appointment in the Department of Chemistry and a courtesy appointment in the Department of Physics. He is a graduate of Harvard University, where he received his BA degree in chemistry and physics in 1961 and his PhD. in chemical physics in 1964. In 1965 he became an assistant professor at the Massachusetts Institute of Technology, but moved to JILA, University of Colorado at Boulder in 1966, remaining there until 1969 while holding joint appointments in the departments of chemistry, and physics and astrophysics. In 1969 he joined the Department of Chemistry at Columbia University as a full professor, becoming the Higgins Professor of Natural Science in 1975. In 1977 he moved to Stanford University. Professor Zare has taught freshman chemistry in one form or another every year he has been at Stanford, and he is very proud to have received the Allan V. Cox Medal for Faculty Excellence Fostering Undergraduate Research, Stanford University (1997), the Laurance and Naomi Carpenter Hoagland Prize for Excellence in Undergraduate Education, Stanford University (2003), and the ACS (Northeastern Section) James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry (2004).

Tuesday, August 1 morning

Plenary Lecture: L3 Chemistry in the Public Eye, A shared presentation

8:00 AM – 9:05 AM Loeb Theater

Peter Atkins was an undergraduate at the University of Leicester, and remained there for his PhD. He then went to UCLA as a Harkness Fellow and returned to Oxford in 1965, where he is now a professor of chemistry and Fellow of Lincoln College. His research was in the application of quantum mechanics to chemical problems, but with time he tunneled into the easier business of writing books, which now number more than 50. The best known of these is Physical Chemistry. Other textbooks include Inorganic Chemistry, Molecular Quantum Mechanics, and various flavors of general chemistry texts. He also writes books on science for the general public. Professor Atkins is deeply involved in a variety of international activities, including chairing the Committee on Chemistry Education of IUPAC, which has the task of improving chemical education worldwide, especially in developing countries, and encouraging and coordinating international efforts towards the public appreciation of chemistry. He is (in 2005) a member of the Councils of the Royal Society of Chemistry and of the Royal Institution of Great Britain, a member of the Bureau of IUPAC, and consultant to SOCED.

David Harpp received a PhD. in Organic Chemistry from the University of North Carolina. After a post-doctorate appointment at Cornell, he joined the Chemistry Department of McGill University. David teaches a variety of Organic Chemistry courses and has published over 200 scientific articles mainly on organosulfur compounds. In 1999, he and two colleagues initiated the Office for Science and Society at McGill. This self-funded outreach endeavor provides a website <http://www.oss.mcgill.ca>, call-in capacities for questions, and lectures to groups and schools. David and his colleagues have created and taught four different World of Chemistry courses on the topics of Food, Drugs, Environment, and Technology, highly visual lectures showcase the ubiquitousness of chemistry in daily life. David has also developed a methodology entitled COOL (COursesOnLine) to make slide/audio lectures available to McGill students via the internet. He has won numerous awards for excellence in teaching chemistry and the promotion of science including the James Flack Norris Award, the Edward Leete Award and the Chemical Manufacturer's Award.

Tuesday, August 1 evening

Plenary Lecture: L4 The Secret Life of Food

7:00 PM – 8:00 PM Loeb Theater

Shirley O. Corriher has been a research biochemist, a working chef who fed 140 teen-age boys three meals/day for 10 years, and a consultant across the whole spectrum of the food industry. She teaches everyone from beginning cooks to top professionals and keeps audiences spellbound with her explanations of the chemistry of how food and recipes work. As a leading food writer, Shirley received the James Beard Award winner for Best Reference and Technique Book of 1997 for her book, *Cook Wise*. Included among her many awards are Best Cooking Teacher of the Year in Bon Appétit's "Best of the Best" Annual Food and Entertaining Awards and the prestigious Research Chefs' Holleman Award for outstanding achievement in technical communication. Shirley was a contributing editor and wrote a regular column for *Fine Cooking* for 10 years, and she continues to write a syndicated column in *The Los Angeles Times* Syndicate's Great Chefs Series. She is well-recognized from her TV appearances on many programs, including *Good Eats* and ABC's *Jimmy Kimmel Live* where Snoop Dogg was her fry chef!

Wednesday, August 2 morning

Keynote Lecture: K4 The challenge of interdisciplinary STEM service classes: How can physics, chemistry, math, and computer science support a redesigned biology curriculum?

8:00 AM - 8:50 AM STEW 306

Edward F. Redish received his undergraduate degree Magna Cum Laude from Princeton University and his PhD. in theoretical nuclear physics from MIT. He has been at the University of Maryland ever since. Prof. Redish is a fellow of the American Physical Society, the AAAS, and the Washington Academy of Science. He has received the Robert A. Millikan Medal from the AAPT and other awards for his work in education from the Washington Academy of Science, the Maryland Association for Higher Education, Dickinson College, and Vanderbilt University. He was the US Representative to the International Commission on Physics Education from 1994-2002. He was the editor of the *Physics Education Research Supplement / Section* to the *American Journal of Physics* from its inception in 1999 to 2004. He is currently Chair of the American Physical Society's Committee on Education. He was founder and co-principal investigator of the Maryland University Project in Physics Education and Technology

(M.U.P.P.E.T.) and Comprehensive Unified Physics Learning Environment (CUPLE). He is co-PI of the project studying the algebra-based introductory physics class entitled: Learning to Learn Science: Meta-learning in introductory physics for bioscience majors with David Hammer. Since 1982 he has been actively involved in the subject of physics education and his current research effort is devoted to student epistemologies and expectations and on student difficulties with the use of mathematics in physics.

Keynote Lecture: K5 The Americans with Disabilities Act: What it really means for you
8:00 AM – 8:50 AM STEW 302

Heather Stout is a certified rehabilitation counselor and trained mediator. She received a master's degree in rehabilitation counseling from the University of Illinois and serves as Associate Dean for Adaptive Programs and TAEVIS (Tactile Access to Education For Visually Impaired Students).

Wednesday, August 2 evening

Plenary Lecture: L5 Creative demo tales from two continents
7:00 PM – 8:30 PM WTHR 200

Bob Becker received a BA in Biology from Yale University in '83 and a Masters in Education from Washington University in '90. He taught for 6 years in Greenwich, Connecticut, with Ron Perkins as his mentor. He has taught Chemistry I and AP Chemistry at Kirkwood High School for the past 15 years. Bob has developed and published several unusual demonstrations and micro-scale lab experiments and is now a regular writer for CheMatters Magazine. He has two books of demonstrations and a videotape available from Flinn Scientific. From 2000 to 2003, he worked with Penney Sconzo and Ed Brogie on a Flinn Foundation traveling team, presenting week-long chemistry workshops around the country. He has conducted over 140 workshops and presentations across the US and Canada. His awards include a Chemical Manufacturers Association regional Catalyst Award in 1992, a local American Chemical Society (ACS) award in 1994, the Midwest regional ACS award in 1995, a Tandy Technology Scholar Award in 1996, and the ACS National Conant Award in 1997.

Viktor Obendrauf is a Lecturer at the University of Graz and head of the Austrian Microscale Center. As a leading proponent of microscale and green chemistry, Obendrauf's innovative experiments and demonstrations are well known in Europe. He has developed many low-cost experiments and demonstrations to improve chemical education at the high school and college levels and has given presentations and workshops on his work in many countries, including England, Israel, Russia, Sweden, Mexico, Canada, and the US. Obendrauf's many awards include the Friedrich Stromeyer Preis and the Manfred und Wolfgang Flad Preis from the German Chemical Society. He is vice president of the Austrian Chemistry Teachers Association and the editor of the German chemistry journal, Praxis der Naturwissenschaften—Chemie in der Schule.

Thursday, August 3 morning

Plenary Lecture: L6 Chemistry Enterprise: Looking back at 2015
11:15 AM – 12:15 PM Loeb Theater

Bill Carroll holds a BA in Chemistry and Physics from DePauw University, Greencastle, IN, an MS from Tulane University in New Orleans, and a PhD. from Indiana University, Bloomington,

IN, both in Organic Chemistry. Bill started his industry career in 1978 and after a year with Rohm and Haas Company, Bristol, PA, moved to what is now known as Occidental Chemical Corporation. He is currently Vice President, Chlorovinyl Issues for OxyChem and works on public policy issues and communications related to chlorine and PVC. He is also Adjunct Professor of Chemistry at Indiana University, Bloomington, Indiana and teaches polymer chemistry there. Bill is Past-President (2005) of the American Chemical Society. He is a Fellow of the Royal Society of Chemistry, a member of the US National Committee for the International Union of Pure and Applied Chemistry, and a member of the Science Advisory Board for DePauw University.

Chemistry Update Speakers

There were comments at the last BCCE that the program should include some technical sessions. Six of our faculty have volunteered to present sessions that present exciting new developments or introduce fascinating concepts. The topics will include advances in mass spectrometry, bioinorganic chemistry, molecular spectroscopy, chemical biology, nucleosynthesis and the origin of the elements, and medicinal chemistry.

Abstracts for Chemistry Updates are available in the Technical Program in the colored pages.

Monday, July 31

U1 Miniature and Ambient Mass Spectrometers: New Instruments, New Science

12:00 – 12:45 Fowler Hall

R. Graham Cooks, Henry B. Hass Distinguished Professor of Chemistry, Purdue University. B.S., 1961, M.S., 1963, Ph.D., 1965 University of Natal (South Africa); Ph.D. 1967 (Cambridge University). Alexander M. Cruickshank Lecturer, Gordon Research Conferences, 2005; Outstanding Commercialization Award for Purdue University Faculty, 2005; Fisher Award (ACS Award for Analytical Chemistry), 1997; Honorary Member, Ukrainian Chemical Society, 1995; Frank H. Field & Joe L. Franklin Award, (ACS Award for Mass Spectrometry), 1991; Thomson Medal, International Mass Spectrometry Society, 1985; ACS Analytical Division, Award in Chemical Instrumentation, 1984; Fulbright Fellow, University of Warwick, 1981

U2 Biomaterials at the Beach: Metal-Protein Interactions in Mussel and Barnacle Adhesives

Fowler Hall, 5:00 PM - 5:45 PM

Jonathan Wilker, Associate Professor of Chemistry, Purdue University. B.S. 1991, University of Massachusetts, Amherst; Ph.D., 1996, Massachusetts Institute of Technology; Postdoctoral Scholar, 1996-1999, California Institute of Technology. One of the Ten Best Teachers in the College of Science, Purdue University, 2004; Alfred P. Sloan Research Fellow, 2002; Arnold and Mabel Beckman Foundation Young Investigator Award, 2001; National Science Foundation Faculty Early Career Development Award (CAREER), 2001.

Tuesday, August 1

U3 Spectroscopy in the Service of Dynamics: A look ahead at spectroscopy for the 21st century

5:00 PM – 5:45 PM Fowler Hall

Brian Dian, Assistant Professor of Chemistry, Purdue University. Ph.D., 2004, Purdue University, 2004 – 2006 Postdoctoral Fellow, University of Virginia. Brian is the newest member of the Department of Chemistry, having joined the faculty in July of 2006.

Adventures in Chemical Biology

Fowler Hall, 5:00 PM - 5:30 PM

Jean Chmielewski, Alice Watson Kramer Distinguished Professor of Chemistry, Purdue University. B.S., 1983, St. Joseph's University; Ph.D., 1988, Columbia University; NIH Postdoctoral Fellow, 1988-1990, Rockefeller University and University of California, Berkeley. ACS Cope Scholar Award, 2003; Agnes Fay Morgan Research Award, 2001; Alfred P. Sloan Fellow, 1996.

Wednesday, August 2

U5 Nucleosynthesis: Formation of the Chemical Elements

Fowler Hall, 12:00 PM - 12:45 PM

Michael E. Lipschutz, Professor of Chemistry, Purdue University. B.S., 1958, Pennsylvania State University; M.S., 1960, Ph.D., 1962, University of Chicago. COSPAR/SAFISY Panel of Space Science Experts, 1990 ; Commission 15, International Astronomical Union, 1988; Minor Planet 2641 Lipschutz named by International Astronomical Union, 1987; Outstanding Teacher, School of Science, 1984; Fulbright-Hays Fellow, 1971-72; Nininger Award, 1962

U6 Bioactive Natural Products: How They Inspire Our Design Of Novel Molecular Probes

Fowler Hall, 5:00 PM - 5:45 PM

Arun K. Ghosh, Professor of Chemistry and Medicinal Chemistry, Purdue University. BSc (Honors), Calcutta University, 1978; MSc, Indian Institute of Technology, Kanpur, 1981; PhD, University of Pittsburgh, 1985; Postdoctoral Fellow, Harvard University, 1985-1988. Fellow of the American Association for the Advancement of Science, 2005; University Scholar, University of Illinois , 1998-2000; Research Fellow, Merck Research Laboratories, 1988-94; National Scholar, Government of India, 1976-1981