

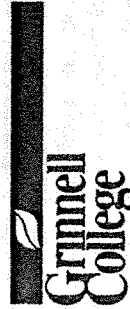
Fortieth
Annual Meeting
of

MACTLAC

Midwestern Association of
Chemistry Teachers in
Liberal Arts Colleges

THE KEY ROLE OF INVESTIGATION IN CHEMICAL EDUCATION

October 23-34, 1992



Grinnell, Iowa 50112

Friday, October 23, 1992

- 10:00 - 1:00 **Executive Council Mtg/Lunch**
Windsor House
- 10:00 - 6:00 **Registration**
Harris Center - Atrium
- 10:00 - 12:00 **Visit Chemistry Department**
Bowen Hall of Science
- 11:30 - 12:30 **Lunch (by reservation)**
Cowles Hall Dining Room
- 1:00 - 2:15 **General Session I**
Harris Center Cinema

Welcome
Charles Duke,
Dean of the College
Luther Erickson,
Chemistry Department Chair
Grinnell College

Keynote Lecture

"An Investigative Approach to
Introductory Cellular/Molecular
Biology"
Jan Serie, Macalester College

- 2:15 - 6:00 **Computational Chemistry
Workshop - Session I**
(Registration Required)
ARH 124
- 2:15 - 3:15 **Discussion Groups I**
ARH Classrooms
- 3:15 - 3:45 **Refreshments**
ARH Courtyard or 2nd Floor Corridor
- 3:45 - 4:45 **Discussion Groups II**
ARH Classrooms
- 4:45 - 6:15 **Poster Session/Mixer**
Harris Center Concert Hall
(Posters to remain until 11:00)
Visit Chemistry Department
Bowen Hall of Science

- 6:30 - 8:00 **Banquet (by reservation)**
Main Hall Dining Room

- 8:30 - 11:00 **"A Brief History of
MACTLAC"**
Anne T. Sherren, Archivist
**Lecture: "Chemistry,
Biology, and Teaching"**
Harry Gray, CalTech
Harris Center Cinema

Social
Harris Center Concert Hall

Saturday, October 24, 1992

- 7:30 - 8:15 **Breakfast (by reservation)**
Cowles Hall Dining Room

8:15 - 10:00 **General Session II**
Harris Center Cinema

Business Meeting

**Lecture: "Computational
Chemistry: Out of the Closet and
Into the Classroom"**
Warren Hehre, University of
California - Irvine

- 10:15 - 10:45 **Refreshments**
Harris Center Atrium

10:45 - 11:45 **Discussion Groups III**
ARH Classrooms

11:45 - 12:45 **Executive Council Meeting
and Lunch**
Cowles PDR

11:45 - 1:00 **Lunch (by reservation)**
Cowles Hall Dining Room

1:00 - 5:00 **Computational Chemistry
Workshop - Session II**
(Registration required)
conducted by Warren Hehre
and others
ARH 124

Discussion Groups I, Friday 2:15 - 3:15 PM

ARH Classrooms

- A Discussion of Serie Lecture**
Carolyn Motley, Luther College
ARH 227
- B Progress on Chemistry in Context**
Truman Schwartz, Macalester College
ARH 120
- C Chemical Hygiene Plans: Bring Models and Concerns to Share**
Eugene Losey, Elmhurst College
ARH 229
- D Organic Chemistry Discussion Group**
David Hampton, Wartburg College
ARH 102
- E Physical Chemistry Discussion Group**
Paul Ogren, Earlham College
ARH 314
- F CACHE Software Display/Demo**
David Bolton, CACHE Scientific
ARH 130

MACTLAC Executive Council for 1992

Officers

- President William B. Martin, Lake Forest Coll.
President-Elect Caroln Motley, Luther Coll.
Past President Anne T. Sherrin, North Central Coll.
Secy.-Treasurer Bradley Glorvigen, Coll. of St. Thomas
- Placement Officer Larry G. Ferren, Olivet Nazarene Univ.
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Indiana William A. Morrison, Univ. of Evansville
Iowa Clinton C. Rila, Iowa Wesleyan College
Michigan Scott Hill, Alma College
Minnesota Michael Ross, College of St. Benedict
Missouri Edwin H. Lane, William Jewell College
Wisconsin Dean A. Kalahra, Ripon College

Discussion Groups II, Friday 3:45 - 4:45 PM

ARH Classrooms

- G Some Experimental Approaches to Intro Chem**
Brock Spencer, Beloit College
Nancy Devino, Dickinson College
ARH 102
- H Sophisticated Instrumentation for the Intro Course Lab**
Lee Sharpe, Grinnell College
ARH 318
- I Teaching and Research - What's the Right Balance?**
Jerry Mohrig, Carleton College
ARH 317
- J Grants: Session I (Broad Support Programs)**
Susan Hixson, NSF
Robert Lichter, Camille and Henry Dreyfus Foundation, Inc.
ARH 322
- K Inorganic Chemistry Discussion Group**
Donald Tarr, St. Olaf College
ARH 227
- M Department Chairs Discussion Group: Results of Budget Survey**
Dan Steffenson, Albion College
ARH 314
- N CACHE Software Display/Demo**
David Bolton, CACHE Scientific
ARH 130

Discussion Groups III, Saturday,

10:45-11:45 AM

ARH Classrooms

- O Computational Chemistry/Molecular Modeling**
Phil Bays, St. Mary's College and
Gary Spessard, St. Olaf College
ARH 102
- P Discussion of Harry Gray's Lecture**
Addison Aul, Cornell College
ARH 227
- Q Building and Renovation Planning**
Jim Swartz, Grinnell College
ARH 229
- R Grants: Session II (Research Support)**
Thomas Blackburn, ACS Petroleum Research Fund
Brian Andreen and Ray Kellman, Research Corp
ARH 314
- S Analytical Chemistry Discussion Group**
John Zimmerman, Wabash College
ARH 318
- T Biochemistry Discussion Group**
Derek Chignell, Wheaton College
ARH 323
- Computational Chemistry Workshop**
Session I: Friday 2:15 - 6:00 PM
Session II: Saturday 1:00 - 5:00 PM
- Separate registration -- but no additional charge -- is required for this intensive session which will involve hands-on use of available software running on one of 8 - 10 SGI Indigo workstations to work with and to evaluate well-tested and recently developed software to enable inexperienced undergraduate students to formulate and carry out significant open-ended investigations of chemical systems. Each participant should acquire a sound understanding of the capabilities of a typical, currently accessible hardware/software combination in a setting that will also emphasize sharing of insights and experiences with the other participants.