

American Chemical Society

Form: Part II - Annual Narrative Report **Optional for EZ Submission**

Organization: Michigan State University

Year: 2001

A. Activities

Please describe and rank up to ten of your section's activities during 2001. Provide (a) the title of the activity, (b) a one paragraph description of the activity, and (c) an indication of which ACS Strategic Thrusts. Please refer to the end of this section for a listing of the ACS Strategic Thrusts or see Part I, questions 3-12. If you wish to provide details beyond these paragraphs, please do so in Appendix 1.

Activity #1

a) Title: Chemistry Day at Impression 5

Our 15th annual hand-ons/demonstration event "Chemistry Day" was held at Impression 5 Science Center this year. Impression 5 is a hands-on science museum, and thanks to a generous \$1500 donation by MBI International, a Lansing biotechnology firm, admission to the museum was free that day. The total attendance was almost 1500 people, including 400 pre-registered scouts. Scouts received a patch for their participation in at least eight of the hands-on activities. In keeping with this year's theme, most of the hands-on activities were art-related including chromatography butterflies, crystal stencil stars, sculpture clay, paper marbling, and silver-plating on glass. Presenters included students from local schools: Mount Hope Elementary School and Holt, Perry, and Stockbridge High Schools; students from Michigan State University in Chemistry Club, NOBChE, ACS Women in Chemistry, and Science Theatre; the Alma College Chemistry Club; and employees of MBI International. These approximately 120 presenters manned 25 tables for the 4.5 hour event. We received excellent coverage from the news media including an article in the Lansing State Journal the day before the event and an article about the event in the State Journal on the following Monday. Supporting materials have been sent by mail.

Description
(please limit to
b) one paragraph):

c) Which Strategic Thrust Does this Activity Support? (Please refer to the List of Strategic Thrusts)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #2

a) Title: NCW Chemistry and Art Lecture

Along with the MSU Kresge Art Museum, we sponsored a lecture "Preserving the Past: Art and Science at the Detroit Institute of Arts" given by Dr. Karen Trentelman, Research Scientist in the Conservation Laboratory at the DIA. Dr. Trentelman discussed the role of analytical chemical techniques in the study, authentication, and preservation of works of art. The

lecture was held in an art gallery at the Kresge Art Museum and was attended by approximately 60 people, including local section members; students and faculty members from both the art and the chemistry departments; and museum patrons. A wine and cheese reception preceded the lecture. Supporting materials have been sent by mail.

Description
(Please limit

b) to one paragraph)

c) Which Strategic Thrust(s) does this activity support? Please refer to the list of Strategic Thrusts)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #3

a) Title

Women in Chemistry

This program, now in its fifth year, has continued to be very strong with commendable activities and participation. ACS Women in Chemistry (WiC) was founded to address the needs and concerns of women who have or are pursuing advanced degrees in chemistry and related fields. It provides a venue for women chemists to interact and the programs are designed to facilitate both professional and personal growth, to provide opportunities for network building, and to establish mentoring relationships. Members are primarily graduate students, postdocs, specialists, and faculty members in the MSU Department of Chemistry, but participants also include women from other departments, undergraduate students, and professional women from the community. Although the mission of the group has remained the same, WiC continually sponsors new types of activities in a variety of formats. This year the goals were to provide members with networking opportunities in industry and academia, maintain a strong outreach program, and find ways to further increase participation in WiC activities. In an effort to strengthen our relationship with women in the industrial community and for women graduate students to obtain a perspective of what a career in industry is like, WiC invited recent graduates: Dr. Wendy Flory (Dow Chemical), Dr. Micah Stowe (Clorox), and Ms. Shawn Mehrens (Pfizer) to share their experiences in a panel discussion. WiC also continued to facilitate networking opportunities through our "Meet the Speaker" program in which members chat informally with academic women visiting the department. In addition, WiC supported events, which would be beneficial for all chemists, including a finance workshop given by Dr. Jim Wiggins, Ass. Prof. of Finance, Eli Broad College of Business, entitled "Investing for Dummies" and a nutrition workshop. WiC also sponsored social activities including an end of the semester (Spring 2001) potluck/BBQ and our annual "kick-off meeting" for the Fall 2001 semester. The latter was an ice cream social for the entire department celebrating our award for "Best Overall WCC" and welcoming new graduate students and faculty. WiC continued to be actively involved in outreach activities. This year these included hands-on activities at the St. Thomas

Aquinas School science fair, Science Day at the Meridian Mall, and National Chemistry Week at Impression Five Science Museum in Lansing, MI. For this year's theme "chemistry and art" we invited students from the MSU art department to display some of their work and join with us in the event. Participants, young and old, were able to learn about the chemistry of glazing in ceramics and in making a bronze sculpture. In keeping with the 2001 NCW theme "Celebrating Chemistry and Art" WiC had a luncheon with Dr. Karen Trentleman, a research scientist at the Detroit Institute of Arts to learn about her conservation job. For more information, visit the MSU WiC website at:
<http://www.cem.msu.edu/~acswic>. Supporting materials have been sent by mail.

Description
Please limit

b) to one paragraph

c) Which strategic thrust(s) does this activity support? (Please refer to the list of Strategic Thrusts)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #4

a) Title: Max T. Rogers Lectureship

The MSU Local Section co-sponsored the Thirteenth Annual Max T. Rogers Lectureship which was given this year by Prof. Peter Moore of Yale University. Prof. Moore presented two technical talks during the period March 12-13, 2001. A luncheon was held in Dr. Moore's honor on Tuesday, March 13, 2001 at the MSU University Club. Special luncheon invitations were extended to Dr. James Dye, Dr. Harry Eick, Mr. John Morton, Dr. Clarence Suelter, and Mr. Floyd Young, who were recognized for their 50th year of ACS Membership.

Description
(Please limit

b) to one paragraph)

c) Which Strategic Thrust(s) does this activity support. (Please refer to the list of strategic thrusts.)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #5

a) Title ACS/MSU High School Teachers Group

We continued our sponsorship of this important outreach activity which serves to bring local area high school teachers to MSU to share teaching ideas, learn about demonstrations to enhance presentations, and to utilize resources available through MSU and the MSU Local Section. One notable activity this past year included a presentation on the forensic science used to identify victims and suspects in the terrorist attacks of September 11th on the World Trade Center.

Description
Please limit

b) to one Paragraph

c) Which Strategic Thrust(s) does this activity support? (Please refer to the list of Strategic Thrusts)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #6

a) Title: MSU Student Awards Reception

A special awards reception was held on Friday, April 27th, 2001 to recognize the MSU Chemistry Department's Graduate and Undergraduate Student Award Winners. MSU Local Section Awards for Outstanding Performance in Undergraduate Chemistry were presented to Daniel Peltier in Freshman Chemistry, Andrew Goetz in Freshman Honors Chemistry, Michael Davis in Organic Chemistry, Bryan Hogle in Physical/Analytical Chemistry, and Eric Dane in Advanced Chemistry.

Description:
Please limit
b) to one Paragraph

c) Which Strategic Thrust(s) Does this Activity Support. (Please refer to the list of Strategic Thrusts.

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #7

a) Title: Outstanding Graduating Student Awards

For the second year, the MSU Local Section presented awards to the outstanding graduating students studying chemical sciences from five of the Colleges/Universities with the local section borders. Award recipients were:

Ms. Sarah Burpee, Albion College
Mr. Christopher Niblock, Kellogg Community College
Mr. Michael Baldwin, Jackson Community College
Ms. Melonnie Furgason, Spring Arbor College
Ms. Amy McAdam and Mr. Jeffrey Dzingle, Michigan State University

Description:
Please limit to
b) one paragraph

c) What strategic Thrust(s) does this activity support. Please refer to the list of Strategic Thrusts.

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #8

a) Title: Science Day at the Meridian Mall

The MSU Local Section participated in the 12th annual Science Day at Meridian Mall on Saturday, February 4, 2001 at the Meridian Mall, Okemos, MI. This event, organized by the MSU Department of Physics and Astronomy and the Capital Area Science and Math Center, provided an opportunity for the MSU Local Section to distribute materials and information about our programs and activities. The MSU Local Section also sponsored tables for the MSU Women in Chemistry program and the local MSU student chapter of NOBCChE (National Association of Black Chemists and Chemical Engineers).

Description:
Please limit to
b) one paragraph.

c) Which Strategic Thrust(s) does this activity support. Please refer to the list of Strategic Thrusts.

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #9

a) Title: Chemistry Olympiad

Description:
Please Limit to

The MSU Local Section has been a participant in the US National Chemistry Olympiad (USNCO) program for many years. In 2001, we hosted 50 students from Charlotte, East Lansing, St. Johns, Hastings, Holt, Lansing Everett, Okemos and Stockbridge High Schools in the local section Chemistry Olympiad qualifying examination held in the MSU chemistry Building. The students took a multiple choice examination and the top 30 finishers subsequently worked two practical problems in the lab. Several MSU faculty members served as proctors for the written and laboratory examinations. Eight students qualified to write the USNCO test, which was held on April 23rd at Michigan State University.

b) one paragraph

c) Which Strategic Thrust(s) does this activity support (Please refer to the list of strategic thrusts)

1 2 3 4 5 6 7 8 9 10

This activity was new in 2001

Activity #10

a) Title: Organic Chemistry Club

Description:
Please limit to

The Organic Chemists Club was established in 1995 and has received financial support from the MSU local section for the past two years. This group meets Wednesday evenings to discuss current and historic literature, consider various mechanistic, synthetic, and spectroscopic problems, etc. (In one of our more unique experiences of the past year, we spent two weeks watching old video tapes of R. B. Woodward lecturing on his beta-lactam work.) The club is organized by Professors Borhan and Maleczka. While MSU faculty, students, and post-docs are the club's primary participants, we have also had students from Central Michigan and other institutions attend meetings.

b) one paragraph

Please indicate which Strategic Thrust(s) is supported by this activity. (Please refer to the list of Strategic Thrusts)

c) Thrusts)

1 2 3 4 5 6 7 8 9 10

This Activity was new in 2001

B. Summary - Overall Section Activities

Please summarize in *1,000 words or less*, the activities of the section in 2001 which have not been already described. Outstanding events should be described in some detail and appropriate attachments included in Appendix 1. Programs described here may be featured in publications produced by the ACS Membership Division and/or at the Local Section Leadership Conferences.

This summary will be especially useful to the Local Section Activities Committee in assessing the

overall program and selecting sections for the ACS Award for Outstanding Performance by Local Sections, to be presented at the ChemLuminary Awards program at the Fall National ACS Meeting.

Younger Chemists Committee

The MSU YCC presented a round-table discussion on a career in academia. Professors Anne Wilson (Butler University) and Merlin Breuning (Michigan State University) discussed preparing for a career in academia, as well as what a career in academia is "all about." The event was well attended, with 15 people turning out. The MSU YCC also held its second annual Faculty-Student mixer, held the week before classes started in the fall. This event was designed to get new and current graduate students and faculty together to meet each other and socialize outside the chemistry department.

Travel Support

The local section has continued to offer financial support for students who wish to attend the ACS National and Regional Meetings. This year travel grants were given to:

Paul Loconto - ACS Regional Meeting in Grand Rapids
Simona Marincean - ACS National Meeting - San Diego
Jeremy Harris - ACS National Meeting - San Diego
Ben Travis - ACS National Meeting - San Diego

Central Regional Award in High School Chemistry Teaching

Ms. Annis Hapkiewicz, recipient of the 1999-2000 Outstanding High School Chemistry Teacher in the MSU Local Section, was awarded the 2001 Central Region Award in High School Chemistry Teaching. Ms. Hapkiewicz received the award at the ACS Joint Central and Great Lakes Regional Meeting in Grand Rapids, MI. Several members of the MSU Local Section board attending the presentation ceremonies on June 11, 2001

Science Olympiad

The MSU Local Section gave financial support in the form of equipment to the Michigan Science Olympiad Lab event.

NCW Poster Contest "Celebrating Chemistry: Then & Now"

Invitations to participate in the poster contest were sent to all of the K-8 classrooms in the local 5 county area. Winners in the Grade 3-5 and 6-8 categories were submitted to the ACS for the national competition. Three honorable mentions were also chosen. The local section winning posters are

displayed at our website:
<http://www.cem.msu.edu/~msuacs/oreach.html>

Student Affiliates

The local section supports the student affiliate group. Their activities for 2001 included the following: (1) January 23: "Ozone Depletion and Atmospheric Particles" by Prof. Simon Garrett, (2) Feb. 3: Science Day at the Meridian Mall hands-on presenters, (3) Feb. 24: Girl's Math and Science Day presenters, (4) March 13: "Applications of Chemistry: Dating Methods" by Prof. Robbins, Archaeologist, and Prof. Paul Mantica, (5) March 27: "Chemistry in Art: Using Chemistry to Restore Masterpieces" by Dr. Karen Trentleman, Detroit Institute of Arts, (6) September 25: First meeting of the Fall term: Pizza, a movie, and planning session, (7) October 6: Science, Engineering, and Technology Day presenters, (8) October 20: Chemistry Day at Impression 5 presenters, and (9) November 17: GLCCC Career Day participants.

C. Local Section and Chair Goals

2001 Goal Attainment. The Local Section Activities Committee strongly encourages local section planning. As a result, the 2001 local section annual report should follow-up on the attainment of goals. Please list the goals you set at the beginning of your term for your section and yourself, and report on the attainment of the

1. goals.

a) Local Section Goals and Assessment:

1. To enhance the professional development of our section members.
2. To encourage and inspire young students to pursue careers in the natural sciences, especially chemistry.
3. To provide a mechanism for informing/educating the general public on chemical issues.
4. To initiate a mentoring program to expand our outreach activities and support of minority students.
5. To organize our outreach activities at local schools to match the goals of Kids and Chemistry program.

Assessment:

Through programs like the Organic Chemistry Club and Women in Chemistry, we have provided valuable development services for our members. Both organizations have provided information both on technical expertise and contact development.

Goals 2 and 3 above have been addressed through several different programs for the general public and young students in particular. For example, "Chemistry Day at Impression 5" brought ~1500 people to hear about the contributions of chemistry to society and to see chemical demonstrations. Along similar lines, Science Day at the Meridian Mall also has a significant outreach component.

For minority students, the MSU local section is making preparations to begin an ACS SEED program, which is designed for disadvantaged students to come to MSU over the summer to do research in faculty laboratories. Prof. Babak Borhan in our department is developing the

program. Hopefully, through this program more minority and disadvantaged students will gain the interest and confidence to begin careers in the sciences.

Although improvement in our outreach activities at local schools still needs improvement, we did have significant programs involving area schools. For example, several high schools participated in our Chemistry Day activities, we held a poster contest for Chemistry Day, members gave demonstrations at area schools, WiC participated at a local science fair, and we continued participation in Chemistry Olympiad.

b) 2001 Chair's Goals and Assessment:

1. Continue to provide financial support for the broad range of outstanding activities currently promoted by the section.
2. Build on the continuing effort to involve the broader membership who are not on the MSU campus in local section activities.
3. Increase involvement of schools and the local section membership with National Chemistry Week and other activities which inform/educate the general public on chemistry-related issues.
4. Encourage increased activity by K-12 teachers by making them affiliate members of the local section.

Assessment:

In the past year, we aided four students financially in attending a National ACS Meeting. In addition, we supported the WiC, Organic Chemistry Club, and Younger Chemists Committee in their activities. For the local NOBCChE (National Association of Black Chemists and Chemical Engineers), we sponsored a table for the Science Day at the Meridian Mall activities.

We continued to have contact with people outside of the Michigan State campus regarding activities through the newsletter. Several of our activities were attended by members off the MSU campus and one member not from MSU is currently serving as Secretary of the Local Section (Doug Nordhouse).

National Chemistry Week activities were very well attended this year with ~1500 people coming to "Chemistry Day at Impression 5" and 120 students doing demonstrations. Many of the demonstrators were from area high schools.

For K-12 teachers, we continued to sponsor the ACS/MSU High School Teachers Group, which provides an opportunity for area educators to receive information on demonstrations to enhance presentations, share teaching ideas, and utilize MSU/ACS resources on chemistry.

2002 Goals. (This section should be completed by the 2002 local section chair.) Please list below at least 2. three goals that you and your local section plan to accomplish during your term as local section chair.

a) 2002 Local Section Goals (Include at least three goals):

1. To enhance the professional development of our

section members.

2. To encourage and inspire young students to pursue careers in the natural sciences, especially chemistry.
3. To provide a mechanism for informing/educating the general public on chemical issues.
4. To initiate a mentoring program to expand our outreach activities and support of minority students.
5. To organize our outreach activities at local schools to match the goals of Kids and Chemistry program.

b) 2002 Chair's Goals:

1. Continue to provide financial support for the broad range of outstanding activities currently promoted by the section.
2. Increase involvement of schools and the local section membership with National Chemistry Week and other activities which inform/educate the general public on chemistry-related issues.
3. Encourage increased activity by K-12 teachers by making them affiliate members of the local section.

D. Suggestions/Concerns

List any suggestions you have for the Local Section Activities Committee (LSAC). How can LSAC specifically help your section?

Listing of Strategic Thrusts

Please refer to the numbers below when identifying activities as they relate to the ACS Strategic Thrusts

- 1 Be the world's leading provider and deliverer of chemical information.
- 2 Provide programs and activities to facilitate the career development of chemical professionals
Provide programs to improve the scientific literacy of students and ensure quality education in the chemical sciences.
- 3
- 4 Increase participation of students and young chemists in the activities of the society.
Provide programs and activities to encourage participation and leadership in all aspects of the chemical sciences by women (W), underrepresented minorities (M), and persons with disabilities (D).
- 5
- 6 Expand services to members and prospective members working in industry.
- 7 Expand activities at the interdisciplinary boundaries of chemistry.
- 8 Encourage funding of research in science, technology, and engineering .
- 9 Encourage activities and programs applying scientific principles to environmental issues.
Provide programs and activities to improve the public's recognition and appreciation of the contributions of chemistry.
- 10

For more information on the strategic thrusts or the ACS Strategic Plan 2001-2003 please visit www.chemistry.org.