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Chemistry Club, SAC ACS
225 M. Jefferson, Chemistry, EMU
Ypsilanti, MI 48197
Updated 1-14-02

Your Future in Chemistry

Undergraduate Programming
2002 Central Regional Meeting, ACS
Student Affiliate Chapter
Eastern Michigan University
Ypsilanti, Michigan 48197

Undergraduate Programming

Background

We believe the undergraduate program should give participating students a vision of what they can do with a degree in chemistry or biochemistry. It should make them think about possibilities they have not considered before. At the same time it should be practical for undergraduate students who, after graduation, will either join the workforce or continue their education at a graduate institution.

Activities

Welcome Table

A welcome table will be set up at a central location from Wednesday afternoon to Friday afternoon during the hours activities will be held. Exact hours will depend upon the availability of members. The table will have information packets, including graduate school information, schedules, and other information pertaining to the meeting.

Thursday, June 27, 2002

(1) Wake Up Coffee and Doughnuts

Both Thursday and Friday morning the day will begin with a coffee and doughnuts session from 8:00 am to 9:30 am at our welcome table.

Your Future in Chemistry

(2) The Future of Polymers and Coatings

Theodore Provder, Ph.D

Director, Coatings Research Institute
Eastern Michigan University
403 W. Forest Ave.
Ypsilanti, MI 48197

New coatings technologies such as high solids, powder, water-borne and radiation curable coatings have been developed during the past 20 years to meet the challenges of (a) governmental regulations in areas of ecology, (b) expected long term increasing costs of energy and petroleum-based solvents, (c) more active public consumerism, and (d) the continual need for cost-effective, high performance coatings in the highly competitive and global business environment. In order to meet the above challenges the new coatings technologies have required advances in resin technologies, in characterization capabilities and in modeling tools. In this talk we will examine some of the current market/technology segments in the coatings industry from the perspective of the current technology and the technical challenges yet to be met and clearly demonstrate the highly disciplinary nature of coatings science. Specific market segments to be addressed include aspects of architectural coatings, packaging coatings and automotive coatings.

(3) Keynote Speaker Luncheon

This event will run from 12:00 pm to 1:30 pm on Thursday. We will recruit an eminent scientist who works at a research university or industry in our region. The scientist will be asked to present state of the art research in the chemical sciences, relevant to the future careers of undergraduate chemistry students. We are also asking for a registration fee of \$3.00 to help compensate the cost of the lunch.

(4) How to Run an Active ACS Student Affiliate Chapter

This program will be held from 1:30 pm to 3:00 pm on Thursday. It will begin with a brief introduction to the most common chapter activities. The main ideas of an effective chapter will be outlined, such as, membership involvement, community service, National Chemistry Week, outreach, fundraising, annual reports, undergraduate programming at ACS meetings, networking, faculty advisors, local sections and industry advisors. We will also hold a chemistry demo exchange during this time. A book of submitted demos will be provided to the participants.

(5) Undergraduate Poster Session

To be held from 2:30 pm to 4:30 pm on Thursday. Student affiliate chapters will be invited to present posters of their activities. We have requested that the work submitted to be sponsored by a faculty member. Abstracts have been requested.

(6) Kick-Off Social

The social will be held on Thursday evening from 7:30 pm until 11:00 pm. It will give the students a chance to socialize with other student affiliates and their advisors. Refreshments will be served and music provided by a professional DJ. There will be dancing, icebreaker games and possibly door prizes.

Friday, June 28, 2002

(7) Undergraduate Oral Presentations

Undergraduates will be invited to give oral presentations on their research activities. This event will take place from 9:30 am to 11:30 am on the third day, and it might be extended to accommodate presenters.

(8) Careers in Chemistry

This program will run from 12:00 pm till 3:00 pm on Friday. This workshop will be run with the help of the ACS Regional Clearinghouse and the ACS Division of Technicians. The topics covered in these three hours include targeting the job market, resume preparation, and interviewing skills. This is in conjunction with the professional program under the coordination with the workshop chair.

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Time Line

Thursday, June 27th

- 8:00 am-9:30 am **(1) WakeUp to Coffee and Doughnuts**
- 9:30 am-10:30 am **(2) The Future of Polymers and Coatings**
- 12:00 pm-1:30 pm **(3) Key Note speaker/Luncheon**
- 1:30 pm-3:00 pm **(4) How to Run an Active Student Affiliate Chapter &
Chemistry Demo Exchange**
- 2:30 pm-4:30 pm **(5) Undergraduate Poster Session** (joint with ACS members)
- 7:30 pm-11:00 pm **(6) Social**

Friday, June 28th

- 8:00 am-9:30 am **(1) WakeUp to Coffee and Doughnuts**
- 9:30 am-11:30 am **(7) Undergraduate Oral Presentations**
- 12:00 pm-3:00 pm **(8) Careers in Chemistry**