

1979 GREAT LAKES REGIONAL MEETING  
AMERICAN CHEMICAL SOCIETY  
June 4-6, 1979

*Rockford College*

MONDAY MORNING      June 4, 1979

Symposium on the Application of Piaget's Theory to the Teaching of Chemistry

B. Z. Shakhashiri, Presiding

- 9:00 - Introduction, Bassam Z. Shakhashiri, University of Wisconsin-Madison
- 9:10 - All the Way With Piaget? David W. Brooks, University of Nebraska-Lincoln
- 9:40 - Discussion
- 9:45 - A Tempest in a Pottage of T. Henry A. Bent, North Carolina State University
- 10:15 - Discussion
- 10:20 - Applications of Piaget's Theory to the Organic Chemistry Lecture Hall.  
Richard Steiner, University of Utah
- 10:40 - Discussion
- 10:45 - Learning Cycles in General Chemistry: Integrated Lectures and Laboratories. D. M. Whisnant, Northland College
- 11:05 - Discussion
- 11:10 - Combining Power: A Ghost from the Past. J. Dudley Herron, Purdue University
- 11:30 - Discussion
- 11:35 - Effect of Using Models on Chemistry Achievement According to Piagetian Level. D. L. Gabel and R. D. Sherwood, Indiana University
- 11:55 - Discussion

MONDAY AFTERNOON June 4, 1979

Symposium on the Application of Piaget's Theory to the Teaching of Chemistry

B. Z. Shakhashiri, Presiding

1:30 - Helping Concrete and Formal Students Understand Formal Chemical  
Concepts. C. R. Ward, Purdue University

2:00 - Discussion

2:05 - Gagné Instead of Piaget. W. D. Smith and N. C. Gill, Illinois State  
University

2:35 - Discussion

2:40 - Panel Discussion

3:30 - Adjourn

TUESDAY MORNING June 5, 1979

Symposium on Laboratory Instruction in Undergraduate Chemistry

B. Z. Shakhashiri, Presiding

- 9:00 - Introduction. Bassam Z. Shakhashiri, University of Wisconsin-Madison
- 9:10 - To Supplement or to Supplant... Ay, There's the Rub! Jerry A. Bell,  
Simmons College
- 9:40 - Discussion
- 9:45 - Freshman General Chemistry Laboratory - Why and How? W. Hutton,  
S. A. Heideman, Iowa State University
- 10:10 - Discussion
- 10:15 - A New Approach to Freshman Chemistry Laboratory. P. G. Rasmussen,  
R. L. Hough, and W. M. Butler, The University of Michigan
- 10:40 - Discussion
- 10:45 - Laboratory Instruction - In the Two-Year College. T. Y. Susskind,  
Oakland Community College, Auburn Heights Campus
- 11:00 - Discussion
- 11:05 - Laboratory Instruction at a Vocational-Technical College. David B. Shaw,  
Madison Area Technical College
- 11:20 - Discussion
- 11:25 - A One Credit-Hour Inorganic Laboratory Course - The Reason Why.  
D. A. Davenport and R. A. Walton, Purdue University
- 11:50 - Discussion

TUESDAY AFTERNOON June 5, 1979

Symposium on Laboratory Instruction in Undergraduate Chemistry

B. Z. Shakhashiri, Presiding

- 1:30 - The Organic Chemistry Laboratory - Why and How. Jerry R. Mohrig,  
Carleton College
- 1:55 - Discussion
- 2:00 - The Core Laboratory Program at University of Illinois at Urbana-  
Champaign. Peter Beak, University of Illinois
- 2:25 - Discussion
- 2:30 - Exploiting the Equilibrium/Analytical Interface. R. W. Ramette,  
Carleton College
- 2:55 - Discussion
- 3:00 - The Role of the Physical Chemistry Laboratory Course. C. D. Cornwell,  
University of Wisconsin-Madison
- 3:25 - Discussion
- 3:30 - Computer-Aided Experimentation in the Teaching Lab. Steve Engh  
and K. L. Ratzlaff, Northern Illinois University
- 3:45 - Discussion
- 3:50 - Use of Video Tapes for Laboratory Instruction in General Chemistry,  
In Conjunction with an Open Lab Format. Fred H. Redmore, Highland  
Community College
- 4:05 - Discussion
- 4:10 - One Semester Laboratory Program in General Chemistry. Thaddeus C.  
Ichniowski and Daniel A. Liebman, Illinois State University
- 4:25 - Discussion
- 4:30 - An Inorganic Laboratory Experiment Involving Photolysis, LC, and IR.  
Elroy W. Post, University of Wisconsin-Oshkosh
- 4:45 - Discussion

WEDNESDAY MORNING June 6, 1979

Symposium on Laboratory Instruction in Undergraduate Chemistry (cont'd)

R. R. Roskos, Presiding

- 9:00 - Three More Open-Ended Organic Laboratory Experiments. Kenneth E. Kolb,  
Bradley J. Helmer, and Kurt W. Field, Bradley University
- 9:15 - Discussion
- 9:20 - Natural Product Synthesis in the Undergraduate Organic Chemistry  
Laboratory. Paul F. Schatz, University of Wisconsin-Madison
- 9:35 - Discussion
- 9:40 - Spectrophotometric Determination of the Solubility Product of Copper  
Chromate in a Freshman Laboratory. E. S. Scott and N. F. Phelan,  
Ripon College
- 9:55 - Discussion
- 10:00 - Break