Department of Chemistry & Biochemistry
College of Charleston

Participation in the
56th ACS Southeast Regional Meeting
Research Triangle Park, NC
Nov 10-13, 2004

Poster Award Recipients

(All received a ribbon indicating their placement within each category. Ribbons will be sent to the individuals if they did not receive them during the meeting.)

Chemical Education:
Matt Yousefzadeh

Physical:
Kyle Strickland

Oral Award Recipients

(All received a plaque. Additionally, 1st place winners received a 1 year complimentary subscription to an ACS journal within their field.)

Organic
3rd place Carol Sober – College of Charleston

1. An Investigation into the Role Tetrahydrobiopterin Plays in Nitric Oxide Synthase
Alex S. McPherson, Peter Barber, Megann Helton, Wolfgang Pfleiderer, Bettie Sue S. Masters, John H Dawson, Amy L. Rogers

2. 3-Substituted 1,2-Benzisothiazole-1,1-Dioxides: Synthesis and Characterization
Michelle A. Meierhoefer, Bonnie J. Grant, Carolyn L. Sober, Jarrett H. Vella, Clyde R. Metz, Charles F. Beam, Donald G. VanDerveer, Mariusz Krawiec, William T. Pennington, N. Dwight Camper

3. 1H-Pyrazole-5-carboxamides and 5-Isoxazolecarboxamides: Synthesis and Characterization
Carolyn L. Sober, Michelle A. Meierhoefer, Jarrett H. Vella, Bonnie J. Grant, Sally P. Grant, Charles F. Beam

4. Derivatives of the Antibiotic Cytosporone E **Nasar A. Siddiqi**, Jeffrey D. Hall, Nathan W. Duncan-Gould, Jennifer N. Kelly, Susan J. Morrison, Justin K. Wyatt

5. Dihydronaphthisoxazoles and Tetrahydronaphthisoxazoles: Synthesis and Characterization
Jarrett H. Vella, Bonnie J. Grant, Carolyn L. Sober, Michelle A. Meierhoefer, Clyde R. Metz, Charles F. Beam, William T. Pennington, Donald G. VanDerveer, Mariusz Krawiec

6. Isoxazole-Ortho-Benzenesulfonamides and Pyrazole-Ortho-Benzenesulfonamides: Synthesis and Characterization **Bonnie J. Grant**, Carolyn L. Sober, Michelle A. Meierhoefer, Jarrett H. Vella, Clyde R. Metz, Charles F. Beam, William T. Pennington, Donald G. VanDerveer, Mariusz Kraweic, N. Dwight Camper

7. Infrared and Raman spectra, conformational stability, ab initio calculations and vibrational assignment of ethyl methyl fluorosilane
Witold A Witkowski, Gamil A Guirgis, Peter Klaeboe, Claus Nielsen

8. Nitric Oxide Generation in Loblolly Pine Pollen
Marion T. Doig III, **Natalie LeVasseur**, Nicole Rothen, Robert Frankis

9. Development of New Bioinorganic Chemistry Laboratory Experiments: Preparation of Metalloenzyme Active Site Models **Faisal Siddiqi**, Jason S. Overby

10. Synthetic Studies of Models for Metalloenzyme Active Sites **Rhiannon Carter**, Jason S. Overby

11. On the hydrolysis of 1,2,3,4,5,8-hexahydro-6-methoxy-1-[(4-methoxy-1,4-cyclohexadien-1-yl)methyl]-2-methylisoquinoline **Seana C. Powers**, Frederick J. Heldrich

12. Vibrational Spectroscopic Studies, Conformations and ab initio calculations of n-propyltrichlorosilane **Witold A Witkowski**, Gamil A Guirgis, Peter Klaeboe, Claus Neilsen

13. Applications of Molecular Modeling to Drug Design **Kyle Strickland**, Kristin D. Krantzman, James S. Giles, Shawn Sendlinger

14. Progress Towards the Synthesis fo Chiral Disubsituted Amino Acids to be Utilized in the Meyers ortho-Alkylation of Chiral Aromatic Oxazolines **L. Alexis Hoeferlin**, M. Florencia Sassano, Justin K. Wyatt

15. 3-Substituted-1,2-Benzisothiazole-1,1-Dioxides: Synthesis and Characterization Michelle A. Meierhoefer, Bonnie J. Grant, **Carolyn L. Sober**, Jarrett H. Vella, Clyde R. Metz, Charles F. Beam, Donald G. VanDerveer, Mariusz Krawiec, William T. Pennington, N. Dwight Camper

16. Educational Resources for Computational Chemistry Shawn C. Sendlinger, James S. Giles, **Clyde R. Metz**

17. Computational Chemistry for High School Teachers Organizer: Shawn C. Sendlinger Officials: Shawn C. Sendlinger Clyde R. **Metz** James S. Giles Rebecca A Kruse

18. 1,1-Dioxides: Synthesis and Characterization Michelle A. Meierhoefer , Bonnie J. Grant , Carolyn L. Sober , Jarrett H. Vella, Clyde R. **Metz**, Charles F. Beam, Donald G. VanDerveer , Mariusz Krawiec 2, William T. Pennington 2, and N. Dwight Camper

19. Isoxazole-Ortho-Benzenesulfonamides and Pyrazole-Ortho-Benzenesulfonamides: Synthesis and Characterization Bonnie J. Grant, Carolyn L. Sober, Michelle A. Meierhoefer, Jarrett H. Vella, Clyde R. **Metz**, Charles F. Beam , William T. Pennington, Donald G. VanDerveer, Mariusz Kraweic, and N. Dwight Camper

20. Revolutionizing Our Approach to Teaching Physical Chemistry with Computational Software Kristin D. Krantzman and Clyde R. **Metz**.

21. Computational Chemistry in Chemical Education (General Chemistry) Cheap or Free - That's for Me Clyde R. **Metz**, James S. Giles , and Shawn C. Sendlinger .

22. Chemistry for Educators An Introduction to Computational Chemistry for Chemistry Educators Shawn C. Sendlinger, James S. Giles, and Clyde R. **Metz**

23. Educational Resources for Computational Chemistry Shawn C. Sendlinger , James S. Giles, and Clyde R. **Metz**

24. An Introduction to Computational Chemistry for High School Chemistry Educators Shawn C. Sendlinger , James S. Giles, and Clyde R. **Metz** .

25. What is Process Oriented Guided Inquiry Learning? Andrei R. **Straumanis**

26. Introduction to Process Oriented Guided Inquiry Learning (POGIL) I - 2YC 3 What is Process Oriented Guided Inquiry Learning? Andrei R. **Straumanis**

27. An Inquiry-Based Approach to the Freshman Chemistry Laboratory **Matt Yousefzadeh**, Elizabeth Martin, and Amy L. Rogers

28. Comparison study of predicted and experimental infrared and Raman spectra of allyltrichlorogermane Sonja Spichtig, **Witold A Witkowski**, and Gamil A Guirgis.

29. Simulation of Substitution and Elimination Reactions: Issues and Concerns **Frederick J. Heldrich**,

30. Preparation of Amidoximes from Cyanostilbenes Marie Christina Correia and Frederick J. Heldrich

31. Synthetic Studies of Bidentate Ligands as Models for Metalloenzyme Active Sites John Johnston and Jason S. Overby

32. Progress Towards the Synthesis fo Chiral Disubsituted Amino Acids to be Utilized in the Meyers ortho-Alkylation of Chiral Aromatic Oxazolines **L. Alexis Hoeferlin**, M. Florencia Sassano, and Justin K. Wyatt