

# 33rd NATIONAL ORGANIC CHEMISTRY SYMPOSIUM

## June 13–17, 1993

*Division of Organic Chemistry, American Chemical Society  
Amos B. Smith, III, Symposium Executive Officer*

The 33rd National Organic Chemistry Symposium of the American Chemical Society will be held June 13–17, 1993 at the Montana State University, Bozeman, Montana. The purpose of the Symposium is to demonstrate the vitality and diversity of the field of organic chemistry through presentations of outstanding research at the forefront of the discipline. The program features the Roger Adams Award Address by E. J. Corey and lectures by ten other speakers. Also there will be two sessions for contributed posters. A book of Abstracts of the talks and the posters will be given to all registrants at the meeting. (This Abstract book may be obtained afterwards by sending \$15.00 plus a self-addressed 10" x 13" envelope to William R. Roush, Secretary–Treasurer, ACS Division of Organic Chemistry, Department of Chemistry, Indiana University, Bloomington, IN 47405.)

Meals and air-conditioned dormitory rooms will be available on the campus at a reasonable cost. On Wednesday evening, there will be an outdoor Bar-B-Que followed by the College National Rodeo Championships. Special tours and various cultural, athletic and outdoor activities will be available during the afternoons.

**Pre-registration is required.** Prior to May 15, the registration fees are: \$145 for members of the ACS Organic Division, \$155 for other ACS members, \$170 for non-members of the ACS, \$50 for postdoctoral fellows, \$25 for students, and \$25 for guests accompanying a registrant. After May 15, each of the preceding registration fees will be increased by \$20. The one-day registration fee is \$60.

To obtain a detailed brochure, registration forms, poster abstract forms, and other general information, please contact: Organic Chemistry Symposium, Conference Services, Strand Union Room 280F, Montana State University, Bozeman, MT 59717-0402; (406) 994-3333; FAX (406) 994-5488.

### *Sunday, June 13*

8:30 pm Opening Mixer and Poster Session A

### *Monday, June 14*

8:30 am Opening Remarks  
9:00 am **Larry E. Overman**, *New Stereocontrolled Methods for Ring Construction*  
10:45 am **James D. White**, *Progress in the Synthesis of Macrolide Antibiotics: A Route to Rutamycin*  
7:30 pm **Andrew G. Myers**, *Mechanistic and Synthetic Studies of the Eneidyne Antibiotics*  
8:45 pm **Yoshito Kishi**, *Natural Product Chemistry: Palytoxin*  
10:00 pm Mixer and Poster Session A *continued*

### *Tuesday, June 15*

9:00 am **Louis S. Hegedus**, *Synthesis of Amino Acids and Peptides Using Photolytic Reactions of Chromium Carbene Complexes*  
10:45 am **Cynthia J. Burrows**, *Oxidation of Hydrocarbons and DNA using Nickel Catalysts*  
7:30 pm **Elias J. Corey**, *Roger Adams Award Address: Studies on Enantioselective Synthesis*  
9:00 pm Mixer and Poster Session B

### *Wednesday, June 16*

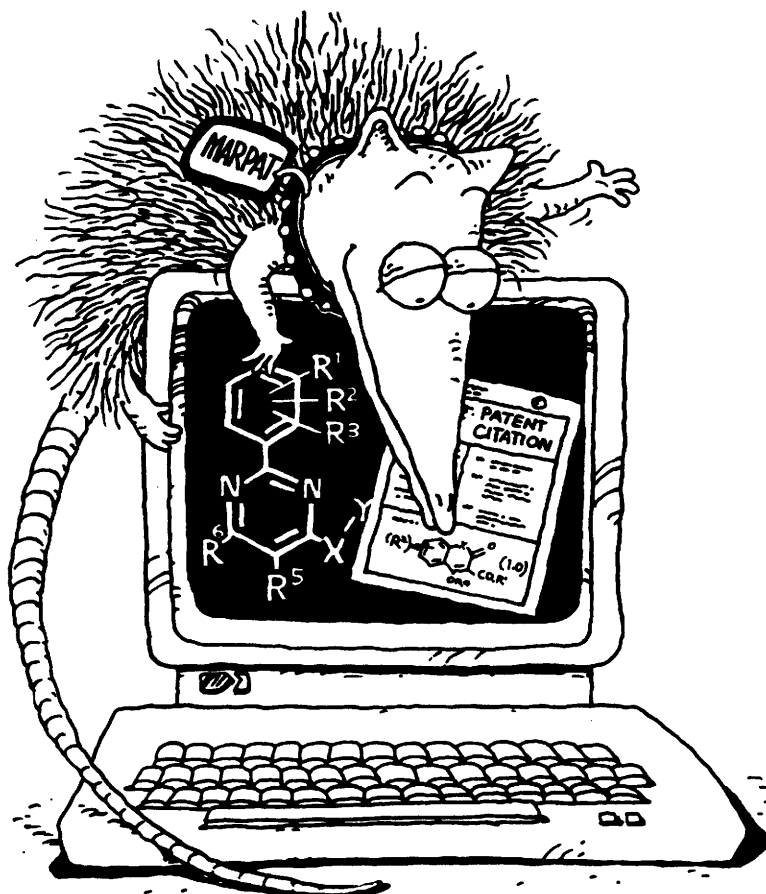
8:30 am **Donald A. Tomalia**, *Starburst™/Cascade Dendrimers: Fundamental Building Blocks for a New Nanoscopic Chemistry Set*  
10:30 am **Fred Wudl**, *Synthesis and Determination of Exotic Properties of the Fullerenes: Periconjugation and Quasi Shift Reagent Effects*  
11:45 am **Jean-Marie Lehn**, *From Molecular Recognition towards Self Organization*  
5:30 pm Western Bar-B-Que  
8:00 pm College National Rodeo Finals  
10:00 pm Mixer and Poster Session B *continued*

### *Thursday, June 17*

9:00 am **Christopher T. Walsh**, *Molecular Basis of Resistance to the Vancomycin Group of Antibiotics*  
10:45 am **Stuart L. Schreiber**, *Molecular Investigations of Signal Transduction*  
12:00 pm Closing Remarks

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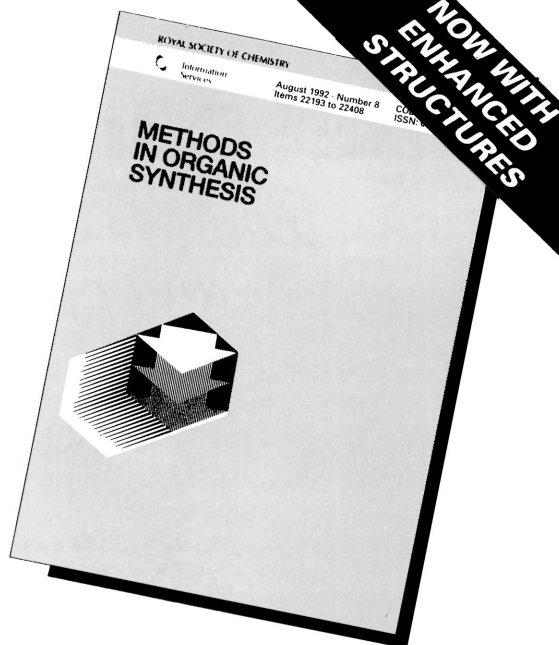
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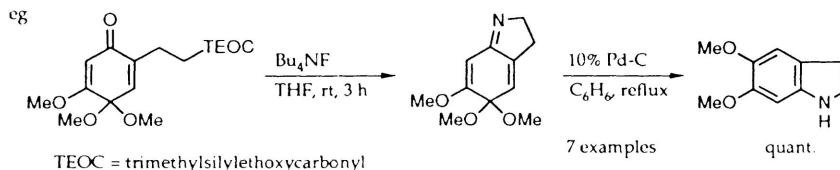
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**22320 A general formation of quinone imines and quinone imine acetals: an efficient synthesis of 5-oxygenated indoles**

Y. Kita\*, H. Tohma, M. Inagaki, K. Hatanaka

*Heterocycles*, 1992, 33(2), 503-506



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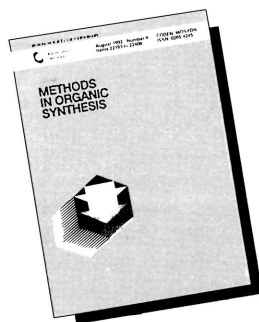
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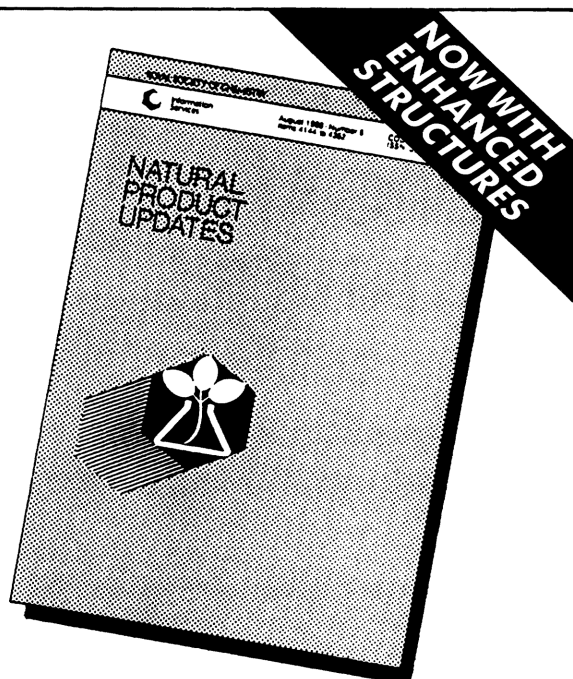
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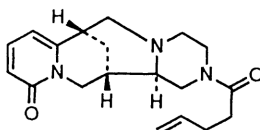


**13136 Sophazrine, a novel quinolizidine alkaloid from *Sophora griffithii***  
Atta-Ur-Rahman\*, A. Pervin, M. I. Choudhary, N. Hasan, B. Sener

*J. Nat. Prod.*, 1991, 54(4), 929-935

X-ray crystallography of a related alkaloid anagryrine, from *Thermopsis turcica* (C<sub>15</sub>H<sub>20</sub>N<sub>2</sub>O, monoclinic) confirms the structure.

Sophazrine  
C<sub>19</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>  
amorphous solid  
[α]<sub>D</sub> +213°



Sophazrine  
C<sub>19</sub>H<sub>25</sub>N<sub>3</sub>O<sub>2</sub>  
amorphous solid  
[α]<sub>D</sub> + 213°

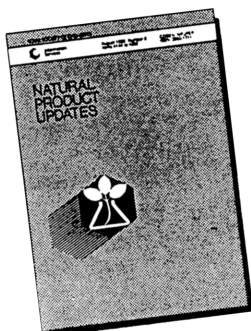
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## Journal of Chemical Research, Issue 3, 1993

Other papers in the subject areas covered by *J. Chem. Soc.* are published in synopsis/microform format in *J. Chem. Research*. For the benefit of readers of *J. Chem. Soc.*, the contents list of *J. Chem. Research (S)*, Issue 3, is reproduced below.

- 87 Reactions of Acylthiosemicarbazides with  $\beta$ -Diketones: Novel Synthesis of *N*-(1-Pyridyl)thiourea Derivatives Galal E. H. (M 0601) Elgemeie and Badria A. W. Hussain
- 88 AM1 Studies of Imine-forming Eliminations (M 0635) Bong Rae Cho and Keepyung Nahm
- 89 Fructosylation of Ergot Alkaloids by Submerged Cultures of *Claviceps purpurea* inhibited in Alkaloid Production Vladimír Křen, Aleš Svatoš, Tomáš Vaisar, Vladimír Havlíček, Petr Sedmera, Sylva Pažoutová and David Šaman (M 0652)
- 90 Role of the Quality of the Solvent in the Reaction of Bis(morpholinothiocarbonyl) Disulfide with Diiodine. Crystal and Molecular Structure of the Obtained Morpholinium Pentaiodide Francesco Bigoli, Paola Deplano, M. Laura Mercuri, M. Angela Pellinghelli and Emanuele F. Trogu (M 0672)
- 91 One-pot Synthesis of 5,11-Dihydro-5,11[1',2']-benzenocyclohepta[*b*]naphthalenylium Tetrafluoroborate(1<sup>-</sup>) as a Precursor for a Study on the Isomerisation of Dihydro-5,11[1',2']-benzeno-5*H*-cyclohepta[*b*]naphthalenes Ralf Sieckmann (M 0683)
- 92 Synthesis of Steroidal Nitroimidazoles as Site-selective Radiosensitizers Hasrat Ali, René Ouellet, Jean N. DaSilva and Johan E. van Lier (M 0612)
- 94 Correlation Analysis of the Host-Guest Interaction of  $\alpha$ -Cyclodextrin and Substituted Benzenes D. Martin Davies and James R. Savage (M 0660)
- 96 Alkaloids of *Daphnandra dielsii*. Part 3. Chemical and Spectroscopic Evidence for the Structure of Hexahydrodaphnine Arthur S. Howard, John Harley-Mason, John Baldas, Pichaet Wiriyachitra, John B. Bremner and I. Ralph C. Bick (M 0701)
- 98 Medium Effects on Outer-sphere Electron Transfer in Binary Solvent Mixtures Manuel Galán, Amalia Rodríguez, Rafael Jiménez and Francisco Sánchez Burgos (M 0728)
- 100 Micellar Effects upon Diazo Coupling Reactions Hamad A. Al-Lohedan, Adel M. Al-Sulaim, Abdullah S. Al-Ayed and Zuhair A. Issa (M 0758)
- 102 Crystal Structure of the Cyclic Tetramer from 3,5-Dichloro-4-hydroxybenzenesulfonyl Chloride Giorgio Cevasco, Silvana Penco, Sergio Thea and Vilma Busetti (M 0779)
- 104 Bond Alternation in Substituted *s*-Indacene Molecules (M 0801) Masahiro Kataoka
- 106  $\sigma$ -Adduct Formation and Proton Transfer in the Reactions of *N*-Substituted Picramides with Amines in Dimethyl Sulfoxide Rachel Chamberlin and Michael R. Crampton (M 0811)
- 108 Reactions of 4-Methylchromene-2,7,8-trione with Phosphorus Ylides. Synthesis of Coumarins 7,8-Fused onto Furan, Pyran and Dioxole Rings Demetrios N. Nicolaidis, Catherine Bezergiannidou-Balouctsi, Konstantinos E. Litinas, Elizabeth Malamidou-Xenikaki, Demetrios Mentzafos and Aris Terzis (M 0826)
- 110 An Expeditious Synthesis of Substituted Isoxazoles from 6-Aryl-4-methylthio-2-oxo-2*H*-pyran-3-carbonitriles Vishnu J. Ram, Falak A. Hussaini, Sanjay K. Singh and Aboo Shoeb (-)
- 112 Marine Sterols. Part 26. Two New Polyhydroxygorgostanes from the Andaman Sea Soft Coral *Lobophytum strictum* Masaru Kobayashi, Madala M. Krishna and Vallurupalli Anjaneyulu (-)
- 114 Kinetics and Mechanism of the Hydrolysis of 2-(4-Methoxyphenyl)-1,3-dithiane in Aqueous Perchloric Acid Muhammad Ali and Derek P. N. Satchell (-)
- 116 Enantiomer Separation and Circular Dichroism Spectra of Bicyclo[3.3.1]nonanediones (-) Ulf Berg and Eugenius Butkus
- 118 Cyclization of *C*-Terminal Histidine Peptides to 7-Amino-dihydroimidazo[1,5-*c*]pyrimidin-5-one Derivatives Mario Chelli, Mauro Ginanneschi, Anna M. Papini, Daniela Pinzani and Gianfranco Rapi (-)
- 120 Carbon-transfer Reactions with Heterocycles. Part 7. A Facile Synthesis of Unsymmetrically Substituted 1,4-Dihydropyridines Harjit Singh, Kamaljit Singh, Paramjit Kaur and Pankaj Sarin (-)
- 122 Studies of Electron Transfer from Hexacyanoferrate(II) Ion to Dodecatungstocobaltate(III) Mala Das-Sharma, Sumana Gangopadhyay, Mahammad Ali and Pradyot Banerjee (-)
- 124 Magnesium Iodide-Diethyl Ether: An Effective Catalyst for Selective Dithioacetalization of Carbonyl Compounds (-) Pritish K. Chowdhury
- 126 Conversion of Thiocyanates into Disulfides: an Approach to Poly(vinylene disulfide) and Related Derivatives from (*E*)-1,2-Dithiocyanatoalkenes Michel Giffard, Jean-Pierre Buisson, Jean-Pierre Busnel, Christine Godon, Serge Lefrant and Thien-Phap Nguyen (-)
- 128 Methylation of [1]Benzothieno[2,3-*d*]triazole Antonino Corsaro, Francesco Guerrera, Giancarlo Perrini, Loredana Salerno, Maria C. Sarvà and Maria A. Siracusa (-)
- 130 Studies with Thienoazines: the Reactivity of Thienopyridazines towards Electron-poor Olefins and Dimethyl Acetylenedicarboxylate Mohamed Hilmy Elnagdi, Abdalla Mohamed Negm, Essam Mohamed Hassan and Afaf El-Boreiy (-)
- 132 Succinylation of 2-Methoxynaphthalene: a Reinvestigation M. Carmen Baló, Franco Fernández, Carmen González, Evangelina Lens and Carmen López (-)
- 134 Linear Free Energy *ortho*-Correlations in the Thiophene Series. Part 15. Kinetics of the Detritiation of Some 3-Substituted 2-[(<sup>3</sup>H)acetyl]thiophenes John R. Jones, Kassim Sowdani, Giovanni Consiglio, Elisabetta Mezzina and Domenico Spinelli (-)

*N.B.* The numbers in parentheses, prefaced by *M*, indicate the first frame occupied by the full-text version of the paper in *J. Chem. Research (M)*. Where no such number is given, the paper as published in *J. Chem. Research (S)* is complete in itself, and there is no extra material in Part *M*.

