

**DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
COLLEGE OF CHARLESTON
PUBLICATIONS**

2000-

Bold face - Chemistry and Biochemistry Faculty Member

* - undergraduate student

1. Jessica D. Townsend*, Angela R. Williams*, April J. Angel*, Anne E. Finefrock, and **Charles F. Beam**, "Preparation of Benz[*b*]indeno[1,2-*e*]pyran-1196*H*-ones from Dilithiated 2-Indanone and Lithiated Methyl Silicylates and Lithiated Methyl Thiosalicylate", *Synthetic Communications*, **2000**, 30, 689-699.
2. J.D. Townsend*, W. Kelly, Jr. *, K.L. Rose*, D.A. Schady*, J.R. Downs*, H.A. Greer*, S.J. Pastine*, and **C.F. Beam**, "The Preparation of 4,5-Dihydro-5-phenyl-5-(2-phenylethenyl)-isoxazoles, 4,5-Dihydro-5-methyl-5-(2-phenylethenyl)isoxazoles, or 4,5-Dihydro-5,5-di-(2-phenylethenyl)isoxazoles from Dilithiated C(α)O-Oximes and Select α,β -Unsaturated Ketones", *Synthetic Communications*, **2000**, 30, 2175-2189.
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5. B.J. Garrison, A. Delcorte, and **K.D. Krantzman**, "Molecule Liftoff from Surfaces", *Accounts of Chemical Research*, **2000**, 33, 69.
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8. **Charles F. Beam**, Deborah A. Schady*, Kelly L Rose*, Wayne Kelly, Jr.*, Ronjay Rakkhit*, Christopher D. Hornsby*, and **Shannon L. Stuuder-Martinez**, "The Preparation of 4,5-Dihydro-3-aryl-natphth-[1,2,*c*]-isoxazoles from Dilithiated 1-tetralone oxime and Aromatic Esters", *Synthetic Communications*, **2000**, 30, 3391-3404.
9. David W. Ward*, T. C. Nguyen*, **Kristin D. Krantzman** and Barbara J. Garrison, "A Comparison of the Energy Density Distribution with Atomic and Polyatomic Projectiles in Organic SIMS", Proceedings of the 12th International Conference on Secondary Ion Mass Spectrometry, edited by A. Benninghoven, P. Bertrand, H-N. Migeon and H. W. Werner, 183-186 (2000).
10. *J. R. Downs, *S. J. Pastine, *D. A. Schady, *H. A. Greer, *W. Kelley, Jr., *J. D. Townsend, and **C. F. Beam**, "Preparation of 1*H*-Pyrazole-5-carboxamides from Dilithiated C(α),*N*-Phenylhydrazones and Lithiated Ethyl Oxanilates or Lithiated Ethyl Oxamate", *J. Heterocycl. Chem.*, in press.
11. **James P. Deavor**, "Who Wants to be a (Chemical) Millionaire?", *Journal of Chemical Education*,

2001, 78, 467.

12. Baldwin, J., Voegtli, W., Khidekel, N., Moenne-Loccoz, P. Krebs, C., Pereira, A., Ley, B., Huynh, B.H.,Loehr, T., **Riggs-Gelasco, P.**, Rosenzweig, A., Bollinger, J.M. "Rational Reprogramming of the R2 subunit of Escherichia coli Ribonucleotide Reductase into the Self-Hydroxylating Monooxygenase, **2001**, *J. Am. Chem. Soc.*
13. J.R. Downs*, S.J. Pastine*, J.D. Townsend*, H.A. Greer*, W. Kelley, Jr.*, D.A. Schady*, T.L. McConaughy,*, **C.R. Metz, C.R. Beam**, C.D. Almquist*, W.T. Pennington, and R.D. B. Walsh, "Preparation of Substituted 1,2-Dihydro-3H-pyrazol-3-ones from Polyolithiated 2'-Phenylphenylacetohydrazides and Aromatic Esters, *Journal of Heterocyclic Chemistry*, **2001**, 38, 695.
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21. Davydov, R., **Ledbetter-Rogers, A.**; Sono, M., Martasek, P., Masters, B. S. S., Dawson, J. H. and Hoffman, B. M. "Cryoreduction of Oxyferrous Nitric Oxide Synthase: Evidence for a Peroxoferric Intermediate En Route to Product Formation." *Biochemistry* (2002) 41(33), 10375-10381.
22. **Guirgis, Gamil A.**; Zhu, Xiaodong; **Heldrich, Frederick J.**; Wright, Matthew J.*; Durig, James R, "Infrared and Raman spectra, conformational stability, ab initio calculations and vibrational assignment of 1-hexen-4-yne." *Physical Chemistry Chemical Physics* **2003**, 5(12), 2541-2551
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27. **Guirgis, Gamil A.**; Pan, Chunhua; Bregg, Jason*; Durig, James R. Spectra and structure of silicon containing compounds. XLI. Infrared and Raman spectra, conformational stability, vibrational assignment and ab initio calculations of cyclopropylbromosilane. *Journal of Molecular Structure* (**2003**), 657(1-3), 239-254.
28. *S. P. Grant, *M. C. Embree, *J. R. Downs, *J. D. Townsend, *C. D. Hornsby and **C. F. Beam**, "The Preparation of 4,5-Dihydro-2H-benz[g]indazoles and 4,5-Dihydro-2H-benz[e]indazoles from dilithiated 1-Tetralone or 2-Tetralone, Carboalkoxyhydrazones and Aromatic Esters," *Indust. & Eng. Chem. Res.*, **2003**, 42, 5721.
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