

COLLEGE OF ENGINEERING

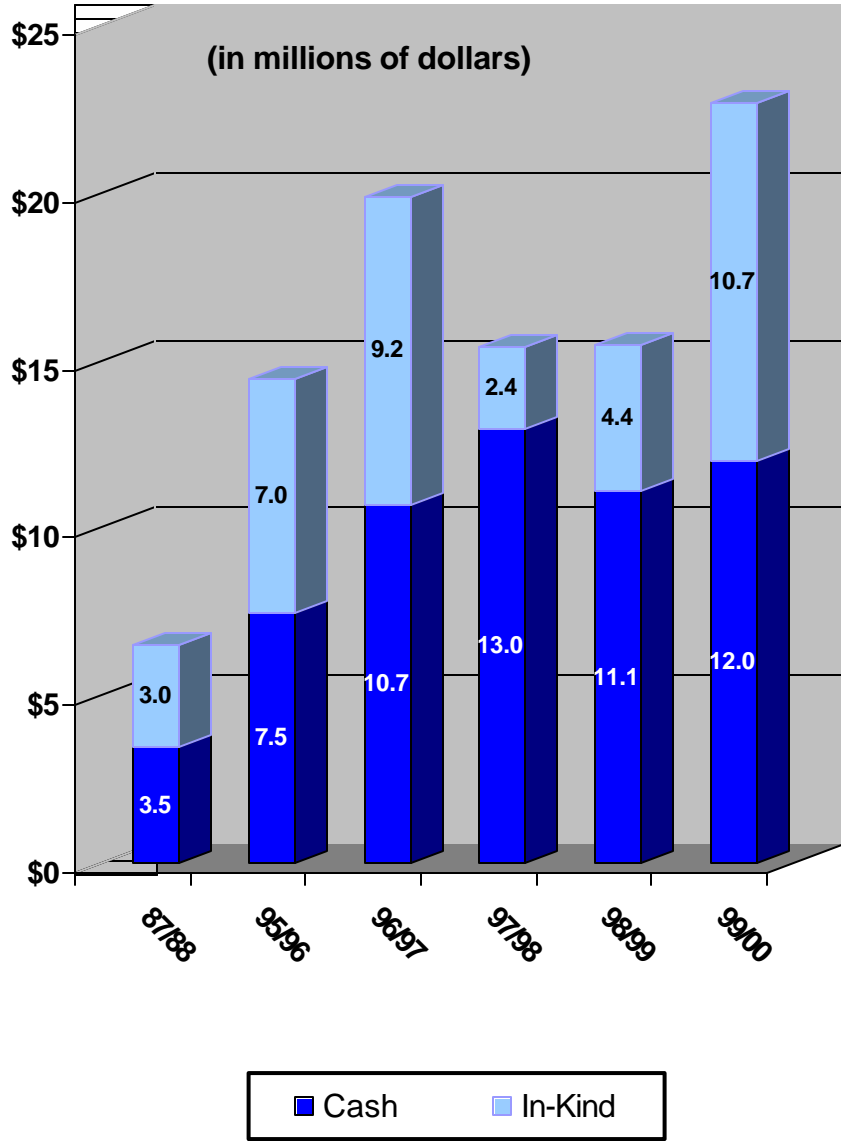
FACULTY SCHOLARSHIP ANNUAL REPORT

2000



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FOREWORD

I am pleased to present the **Annual Report of Faculty Scholarship for 2000** which archives the activities of our faculty and researchers with respect to refereed journal publications, refereed articles in conference proceedings, books, and patents. During the calendar year, the Engineering Faculty authored 124 peer reviewed articles in archival journals, and 216 articles in conference proceedings. They also contributed to 39 books and conference proceedings as authors or editors and obtained 6 new patents.

The talents of the Engineering Faculty/Researchers are impressive and their further accomplishments will continue to keep us a premier College of Engineering. I hope you find the information contained within this report useful. I welcome any comments you may have. Please send them to me at grad-eng@coe.neu.edu.

Dr. Yaman Yener
Associate Dean of Engineering for
Research and Graduate Studies

Chemical Engineering

Refereed Journal Articles

Warzywoda, J., **Bac, N.**, Rossetti, Jr., G.A., Puil, N.V.D., Jansen, J.C., van Beckum, H. and **Sacco, Jr., A.**, “*Synthesis of High-Silica ZSM-5 in Microgravity*,” **Microporous and Mesoporous Materials**, Vol. 38, 2000, pp. 423-432.

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Manodori, A.B., **Barabino, G.A.**, Lubin, B.H. and Kuypers, F.A., “*Adherence of Phosphatidylserine-Exposing Erythrocytes to Endothelial Matrix Thrombospondin*,” **Blood**, February 15, 2000, Vol. 95(4), pp. 1293-1300.

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Lee, C.W.T., “*Guiding Principles for Teaching: Distilled from My First Few Years of Teaching*,” **Chemical Engineering Education**, Vol. 35(4), 2000, pp. 344-345, 349.

Hamdeh, H.H., Barghout, K., Ho, J.C., **Wiley, R.J.**, O'Shea, M.J. and Chaudhuri, J., “*Structural and Magnetic Characterization of Aerogel-Produced $Ge_{0.5}Fe_{2.5}O_y$ Nanoparticles*,” **J. Magnetism and Magnetic Materials**, Vol. 212, 2000, pp. 112-120.

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Guttoff, E.B., “*The Drying of Coatings on Thick Webs*,” **10th International Coat. Sci. and Tech. Symp.**, Scottsdale, Arizona, September 25-27, 2000.

Wiley, R.J., “*Use of SACHE Products in the Class Room-A Polystyrene Reactor Runaway*,” **Chemical Engineering Education in the New Millennium, AIChE Annual Meeting 2000**, Los Angeles, California, **Topical Conference Proceedings**, Hesketh, R.P., Howat, C.S. and Dixon, D.S., (eds.), AIChE, New York, New York, 2000, pp. 116-123.

Willey, R.J. and **Lee, C.W.T.**, “*Ethics and Role Playing in Freshman Engineering Introductory Courses*,” **Chemical Engineering Education in the New Millennium, AIChE Annual Meeting 2000**, Los Angeles, California, **Topical Conference Proceedings**, Hesketh, C.S., Howat, R.P. and Dixon, D.S., (eds.), AIChE, New York, New York, 2000, pp. 419-426.

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Zhao, J., Wise, D.L., **Guttoff, E.B.**, Gresser, J.D. and Levendis, Y.A., “*Control of Submicron Air Toxin Particles After Coal Combustion Utilizing Calcium Magnesium Acetate*,” **Environmental Biotechnology and Cleaner Bioprocesses**, Olgujn, E.J., Sanchez, G. and Hernandez, E., (eds.), Taylor & Francis, Philadelphia, Pennsylvania and London, England, 2000, Ch. 6, pp. 63-80.

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Guttoff, E.B., “*How Do I Prevent Bubbles in My Coatings?*” ‘Ask Amical,’ **Converting Magazine**, Vol. 18(5), May 2000, p. 50.

Guttoff, E.B., “*How Can SPC Improve My Product Quality?*” ‘Ask Amical,’ **Converting Magazine**, Vol. 18(9), September 2000, pp. 34-35.

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Basu, S. and **Wei, I.W.**, “*Mechanism and Kinetics of Oxidation of 2,4,6-Trichlorophenol by Fenton's Reagent*,” **Journal of Environmental Engineering Science**, Vol. 17(5), 2000, pp. 279-290.

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