

RICHARD L. LEHMAN

Professor and Chair

*Department of Materials Science and Engineering
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PROFESSIONAL PREPARATION

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|--------------------|---------------------------------|----|
| Rutgers University | Ceramic Science and Engineering | BS |
| Rutgers University | Ceramic Science and Engineering | MS |

APPOINTMENTS

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|---|----------------|
| Department Chair, Materials Science and Engineering, Rutgers University | 2010 – Present |
| Director, AMIPP Advanced Polymer Center, Rutgers University | 2002 – Present |
| Professor, Materials Science and Engineering, Rutgers University | 1996 – Present |
| Assistant Director, Fiber Optics Materials Research Program, Rutgers University | 1986 – Present |
| Associate Professor, Materials Science and Engineering, Rutgers University | |
| Assistant Professor, Materials Science and Engineering, Rutgers University | |
| Manager, Commercial/Technical Development, FMC Corporation | |
| Marketing Product Manager, Polymer Additives, FMC Corporation | |
| Group Leader and Research Engineering, R&D Center, FMC Corporation | |
| Glass Technologist, R&D Center, Johns-Manville Fiberglass, Toledo, OH | |

PRODUCTS

Published Books:

1. Introduction to Computing for Engineers, Fortran and Its Application in Engineering, by Richard L. Lehman, Kendall/Hunt Publishing Company, Dubuque, Iowa, ISBN 0-7872-7402-X (2000)
2. Environmental Technologies for Glass, A Guide to Green Manufacturing, Edited and with Authored Chapter Introductions by Richard L. Lehman and Yuya Umezus, Ashlee Publishing, 18 E. 41st Street, New York, NY (1996)
3. Handbook on Continuous Fiber Ceramic Composites, Edited by Richard L. Lehman, Said K. El-Rahaiby, and John B. Wachtman, Jr., Ceramics Information Analysis Center, Purdue University, West Lafayette, IN 47906-1398, 600 pages. (1995)
4. G. Giancola, R.L. Lehman and J. D. Idol, "Melt processing and domain morphology of PMMA/HDPE polymer blends prepared from powder precursors", Journal of Powder Technology, 218, 18–22 (2012).

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Selected Refereed Journal Articles:

5. G. Giancola and R.L. Lehman, "Uniquely identifying polymer composite domains using energy-dispersive spectroscopy", invited article for SPE Plastics Research online, April 1-3 (2012).
6. G. Giancola, R.L. Lehman and S. Miller, Phase Inversion Composition and Domain Identification by Energy Dispersive Spectroscopy in Immiscible Blends of Poly(trimethylene terephthalate) and Polyamide6,10, Polymer Engineering and Science, 52, 1548-1554, (2012).
7. G. Giancola and R.L. Lehman, "Viscosity and domain morphology in binary
8. engineering, 32, 265-273 (2012).
9. G. Giancola, R. Lehman and J.D. Idol, "Sustainable Polymer Composites: Immiscible Blends Prepared by Extrusion of Poly(trimethylene terephthalate) and Polyamide6,10 with High Bio-Based Content", International Journal of Sustainable Engineering, February 27, 1-6 (2012).

SYNERGISTIC ACTIVITIES

- i. Collaboration with Corning incorporated to bring specialized glass engineering laboratory experience to undergraduates where previously only classroom lecture formats were available. Students travel with Professor Lehman to Corning Incorporated to tour advanced laboratories as well as form hot glass in a studio environment.
- ii. Directing of the Rutgers Polymer Center offers the unique synergism of combining organic and inorganic glass experiments for summer students, ranging from extrusion of thermoplastics to the high temperature melting of inorganic glasses.
- iii. Technology transfer to external organizations of varied character via a glass seminar focused on the fundamentals of glass technology. This seminar is presented semi-annually at varied locations.
- iv. As Department Chair, Professor Lehman is the leader in the recruitment of underrepresented minorities at the high school and freshman college level to enter Rutgers and begin their academic career in materials science and engineering.

COLLABORATORS & OTHER AFFILIATIONS

Collaborators:

Dr. Giorgiana Giancola, Kobo Products, South Plainfield, NJ
Prof. Masanori Hara, Department of Chemical and Biochemical Engineering, Rutgers University
Dr. Jennifer Lynch, Department of Materials Science and Engineering, Rutgers University
Professor Thomas Nosker, Department of Materials Science and Engineering, Rutgers University
Arya Tawatia, Department of Materials Science and Engineering, Rutgers University
Marissa Tieno, Department of Materials Science and Engineering, Rutgers University

Graduate Advisors: Professor Harold T. Smyth, (Deceased)

Recent Graduate Students:

Dr. Giorgiana Giancola, TRI, Princeton, NJ
Dr. Wantinee Viratyaporn, Thai National University, Bangkok, Thailand
Dr. Minh Vu, Department of Materials Science and Engineering, Rutgers University