Current 6/17/15

Curriculum Vitae

William Edward Mayo 35 Hutchinson Road Allentown, NJ 08501 wemayo@optonline.net



| Educatio | n | |
|----------|-------------------------|--|
| 1982 | | ral Fellow, Bell Labs, Murray Hill NJ - Major areas of study: XRD tion of III-V thin films. |
| 1982 | Major areas fatigue and | hanics and Materials Science), Rutgers University, Piscataway NJ - of study: structural and failure analysis of materials deformed by stress corrosion cracking; development of computerized x-ray testing odeling of hardening mechanisms and phase transformations. |
| 1974 | Pittsburgh P | llurgy and Materials Science) Carnegie-Mellon University, PA., - Major areas of study: metal processing methods and tor characterization. |
| 1971 | B.S. (Physic | cs) Carnegie-Mellon University, Pittsburgh PA. |

Post Graduate Training

| 2013-2015 | Current Good Manufacturing Practices (cGMP) – Classroom training in FDA required aspects of pharmaceutical testing. |
|-----------|--|
| 2003 | Advanced Rietveld Analysis – Georgia Tech University, Atlanta, GA |
| 2000 | Rietveld Analysis – Universität Bayreuth, Bayreuth, Bavaria, Germany |

Academic Employment

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2008- pres **Emeritus Professor**, Rutgers University, Piscataway NJ, Material Science and Engineering Dept.

1998-2008 **Professor**, Rutgers University, Piscataway NJ, Ceramic and Materials

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| | Engineering Department (now Materials Science & Engineering Dept) |
|-----------|--|
| 1995-1998 | Associate Professor, Rutgers University, Piscataway NJ, Ceramic and Materials Engineering Department. |
| 1988-1995 | Associate Professor, Rutgers University, Piscataway NJ, Dept. of Mechanics and Materials Science. |
| 1982-1988 | Assistant Professor, Rutgers University, Piscataway NJ, Dept. of Mechanics and Materials Science. |
| 1978-1982 | Research Assistant , Rutgers University, Piscataway NJ, Dept. of Mechanics and Materials Science. |

Non-Academic Employment

| 1997-pres | H&M Analytical Services, Allentown NJ, (Co-Founder and Chief Scientist). |
|------------|---|
| 2011-pres | Veracity Network, Vero Beach FL, (Co-founder/Science Advisor) - formerly Xstream Systems. |
| 2004-20011 | Xstream Systems, Vero Beach FL, (Co-founder/Science Advisor). |
| 1999-2001 | Nanopac, New Brunswick NJ, (Co-founder) |
| 1977-1978 | TRW (Reda Pump Division), Bartlesville OK, Materials Engineering Section, (Metallurgist). |
| 1974-1977 | Olin Metals Research Laboratory , New Haven CT, Physical Metallurgy Section, (Metallurgist). |
| 1970-1972 | Harry Diamond Research Laboratory, Washington, DC, Microminiature Branch, (Physicist). |

Honors

| 2006 | Fellow, International Centre for Diffraction Data, Newtown Square PA. |
|------|---|
| 1982 | Post-Doctoral Fellow, Bell Laboratories, Murray Hill, NJ |

Editorial Positions

DOCKET A L A R M

| 1994-2007 | Editor, Metals Index of the Powder Diffraction File, ICDD |
|-----------|---|
| 1998-2007 | Assistant Editor for New Diffraction Data, Powder Diffraction (Journal) |
| 1998-2001 | Assistant Editor, Nanostructured Materials (Journal) |
| 1996-2000 | Editorial Staff, PDF-4 Relational Database, ICDD |

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| 1997-1998 | Editorial Staff, The Blue Book, ICDD |
|-----------|---|
| 1987-1988 | Chair, Editorial Board, TMS/AIME Conference on High Temperature Superconductors, Rutgers University |
| 1985-1986 | Member, Editorial Board, TMS/AIME Conference on Semiconductor Defects, Bell Labs |
| 1979-1984 | Assistant Editor, Metals Index of the Powder Diffraction File, ICDD |
| 1982-1983 | Member, Editorial Board, US/France Cooperative Meeting, Snowmass, CO |

Technical Society Memberships (past 10 years)

American Ceramic Society American Crystallographic Association International Centre for Diffraction Data Materials Research Society Metallurgical Society Sigma Xi Honorary Society

Teaching (Courses Taught)

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| 150:254 150:206 | Laboratory II (X-ray diffraction and X-ray fluorescence) Thermodynamics |
|--------------------|--|
| 150:309 | Analytical Techniques in Ceramics |
| 150:408 | Analytical Techniques for Ceramics Research |
| 150:520 | X-ray Diffraction and Spectroscopy in Ceramics |
| 150-521 | X-ray Diffraction and Spectroscopy Laboratory |
| 150-524 | Advanced Characterization |
| 150:532 | Kinetics: Diffusion, Phase Transformations and Sintering |
| 150:563 | Advanced X-ray Diffraction |
| 440-127 | Introduction to Computing for Engineers |
| 440-407 | Mechanical Properties of Materials |
| 655-351 | Metallurgical Engineering |
| 655-551 | Physical Metallurgy I |
| 655-552 | Physical Metallurgy II |
| 635-553 | Mechanical Behavior of Metals |

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- 655-561 Computer Aided Experimentation
- 655-595 Advanced Physical Metallurgy I
- 655-601 Kinetics of Metal Systems
- 655-xxx X-ray Diffraction (unaccredited course)

Teaching (Courses Developed)

| 150:254 | Laboratory II (X-ray diffraction and X-ray fluorescence) |
|---------|--|
| 150:520 | X-ray Diffraction and Spectroscopy in Ceramics |
| 150:521 | X-ray Diffraction and X-ray Spectroscopy Laboratory |
| 440-125 | Introduction to FORTRAN |
| 655-561 | Computer Aided Experimentation |
| 655-553 | Mechanical Behavior of Metals |
| 655-601 | Kinetics in Metal Systems |

Teaching (Courses Supervised)

| 440-125 | 1990 - 1996 (Average of 125 students/year) |
|---------|--|
| 440-127 | 1982 - 1996 (Average of 900 students/year) |
| 655-221 | 1990 - 1991 (Approximately 750 students) |
| 655-222 | 1990 - 1991 (Approximately 400 students) |

Personnel Supervised

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| | Christian Pinzone, Ph.D. 2006 |
|------------|---------------------------------------|
| | Chandrusekhar Reddy Gorla, Ph.D. 1999 |
| | Yu Chi Wang, Ph.D. 1998 |
| | Matthew Schurman, Ph.D. 1998 |
| Ph.D. | Shih-Chieh Liao, Ph.D. 1996 |
| Students | Chiao-Yi Hwang, Ph.D. 1995 |
| | Ganjiang Feng, Ph.D. 1992 |
| | Jhong Wah Lee, Ph.D., 1992 |
| | Shyam Rao, Ph.D., 1992 |
| | Chi-Fung Lo, Ph.D., 1989 |
| Post-Docs | Hidehiko Kamide (1986-88) |
| 1 000 2000 | Nagabusham Patibandla (1989-90) |

Ping Lu (1993-95) B S Sywe (1994-95) (w/ Y. C. Lu) Shih Chieh Liao (1997-99) James Colaizzi (1999-00)

VisitingMasanori Kurita (1988-89), Nagaoka Technological University, JapanProfessorsZwi Kalman (1989-2001), Hebrew University, Jerusalem, Israel

University Service

| University | Hub Computer Committee (1994-1998) Common Purposes (Executive Committee) (1994-95) Search Committee for VP for Computing (1991-92) Radiation Safety Committee (1984-90) |
|------------|---|
| College | Freshman Computing Committee (1983-96) Freshman Computer Course Coordinator (1983-96) College Planning Committee (1989-1994) Health and Safety Committee (1986-1991) Grievance Committee (1991-94) |
| Department | Committee on Strategic Plan (1993) Seminar Series Organizer (1983-84, 1992) Safety Officer (1983-91) Space Committee (1991-93) Computer Course Coordinator (1982-1996) X-ray Laboratory Supervision (1983- 2008) |

Scholarly Service Activities

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