Current 12/09/20

Curriculum Vitae

William Edward Mayo 1909 Waterfront Pl - #540 Pittsburgh, PA 15222 billm02127@gmail.com



Summary

- PhD in Material Science with over 45 years of experience in academia and industry
- Expert in X-ray diffraction (XRD) analysis of organic and inorganic materials
- Fellow of the International Centre for Diffraction Data
- Former editor of XRD database (*PDF*) and journals (*Powder Diffraction*)
- Founder of XRD service laboratory and consulting service
- Inventor of XRD system for counterfeit pharmaceutical detector
- Author/coauthor of 135+ published articles
- Expert in material analysis and patent infringement litigation

Education

1982	Post Doctoral Fellow , Bell Labs, Murray Hill NJ - Major areas of study: XRD characterization of III-V thin films.
1982	Ph.D. (Mechanics and Materials Science), Rutgers University, Piscataway NJ - Major areas of study: structural and failure analysis of materials deformed by fatigue and stress corrosion cracking; development of computerized x-ray testing methods; modeling of hardening mechanisms and phase transformations.
1974	M.E. (Metallurgy and Materials Science) Carnegie-Mellon University, Pittsburgh PA., - Major areas of study: metal processing methods and semiconductor characterization.
1971	B.S. (Physics) Carnegie-Mellon University, Pittsburgh PA.

Post Graduate Training

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2017	How to Excel and Succeed as an Expert Witness in Patent Cases: Special Techniques – Seak Workshop, Falmouth MA
2017	How to Excel at Your Expert Witness Deposition – Seak Workshop,

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Falmouth MA

2016	Advanced Testifying Skills for Experts – Seak Workshop, Chicago IL
2013-2016	Current Good Manufacturing Practices (cGMP) – Classroom training in FDA required aspects of pharmaceutical testing.
2013	How to Write a Bulletproof Expert Witness Report – Seak Workshop, Washington DC
2003	Advanced Rietveld Analysis – Georgia Tech University, Atlanta, GA
2000	Rietveld Analysis – Universität Bayreuth, Bayreuth, Bavaria, Germany

Academic Employment

2008- pres	Emeritus Professor , Rutgers University, Piscataway NJ, Material Science and Engineering Dept.
1998-2008	Professor , Rutgers University, Piscataway NJ, Ceramic and Materials Engineering Department (now <i>Materials Science & Engineering Dept</i>).
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

DOCKET A L A R M

1997-2015	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.
2004-2011	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

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Branch, (Physicist).

Honors

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

Editorial Positions

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
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 Sigma Xi Honorary Society

Teaching (Courses Taught)

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- 150:254 Laboratory II (X-ray diffraction and X-ray fluorescence)
- 150:206 Thermodynamics
- 150:309 Analytical Techniques in Ceramics
- 150:408 Analytical Techniques for Ceramics Research

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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
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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Ph.D. Students	Christian Pinzone, Ph.D. 2006 Chandrusekhar Reddy Gorla, Ph.D. 1999 Yu Chi Wang, Ph.D. 1998 Matthew Schurman, Ph.D. 1998 Shih-Chieh Liao, Ph.D. 1996 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) 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)
Visiting Professors	Masanori Kurita (1988-89), Nagaoka Technological University, Japan Zwi Kalman (1989-2001), Hebrew University, Jerusalem, Israel

University Service

	Hub Computer Committee (1994-1998)
	Common Purposes (Executive Committee) (1994-95)
University	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)

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