

## Michael G. Prais, Ph.D.

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### CURRICULUM VITA

Dates	Position	Institution
2010 -	Instructional Technology Coordinator Academic Computing and Communications Center	University of Illinois at Chicago Chicago, Illinois
2003 - 2008	Director Information Services	Saint Xavier University Chicago, Illinois
1989 - 2001	Director Academic Computing Services	Northern Illinois University DeKalb, Illinois
1987 - 1989	Chair Department of Chemistry	Roosevelt University Chicago, Illinois
1986 - 1989	Associate Professor Department of Chemistry	Roosevelt University Chicago, Illinois
1984 - 1989	Director Academic Computing Facilities	Roosevelt University Chicago, Illinois
1982 - 1988 (Summers)	Visiting Research Chemist Department of Chemistry	U. of California, San Diego La Jolla, California
1981 - 1986	Assistant Professor Department of Chemistry	Roosevelt University Chicago, Illinois
1981	Postdoctoral Research Chemist Department of Chemistry	U. of California, San Diego La Jolla, California
1974, 1981	M.S., Ph.D., Chemistry	U. of California, San Diego La Jolla, California
1972	B.S., Chemistry	The University of Chicago Chicago, Illinois

### DOCTORAL DISSERTATION

"Modified Moment Methods for a Study of the Vibrational Motion of Atoms at the Surface of a Solid", John C. Wheeler, Ph.D., Professor of Chemistry, Advisor

## CONSULTING

Technical Expert, International Standards Organization (ISO), TC 42, Photography, 2011 -

## PUBLISHED WORK

Prais, M. G., "Improving the sensitometric and OECF standards: recognizing the photosensitive exposure range," in *Digital Photography VII*, edited by Francisco Imai, Feng Xiao, Jeffery M. DiCarlo, Nitin Sampat, Sebastiano Battiato, Proceedings of SPIE-IS&T Electronic Imaging, SPIE Vol. 7876, 7876-28 (2011).

Prais, M. G., "Reviewing the exposure meter constant: improving the exposure equation," in *Digital Photography VI*, edited by Francisco Imai, Nitin Sampat, Feng Xiao, Proceedings of SPIE-IS&T Electronic Imaging, SPIE Vol. 7537, 7537-37 (2010).

Prais, Michael G., "Photographic Exposure Calculations and Camera Operation", ISBN 978-1-4196-8852-2 (2008).

Prais, M. G., "NMR Spectroscopy: An Introduction to the Operation of Modern Instrumentation," J. Chem. Ed., 70: 381-387 (1993).

Prais, M. G., "Spreadsheet Exercises for Instrumental Analysis," J. Chem. Ed., 69: 488-493 (1992).

Prais, M. G., "Analysis of the Vibrational-Rotational Spectrum of Diatomic Molecules," J. Chem. Ed., 63: 747-752 (1986).

Prais, M. G., and J. C. Wheeler, "Improved Modified-Moment-Singularity Method," Phys. Rev. A., 33: 1233-1245 (1986).

Wheeler, J. C., M. G. Prais, and C. Blumstein, "Analysis of Spectral Densities Using Modified Moments," Phys. Rev. B, 10: 2429-2447 (1974).

Prais, M. G., D. F. Heller, and K. L. Freed, "Nonradiative Decay Processes in Benzene", Chem. Phys., 6: 331-352 (1974).

Prais, M. G., "The Thermodynamic and Kinetic Aspects of Related Metal-Acid Systems," in the Proceedings of the Fourth Annual Southeastern Michigan Junior Science and Humanities Symposium, Wayne State University, Detroit (1968).

## HONORS AND AWARDS

NSF College Science Instrumentation Program Grant, 1986

Granted indefinite tenure at Roosevelt University, 1986

Roosevelt University Faculty Research Leave, 1983-1984 (one of four)

Roosevelt University Teaching Load Reduction for Research, 1982-1983 (one of three)

California Community Colleges Instructor Credential in Chemistry and Physics 1974-

Co-Captain, The University of Chicago Football, 1972

An Outstanding College Athlete of America, 1971

Outstanding Lineman, The University of Chicago Football, 1970-1972

## **COMMITTEE WORK**

Information Technology Governance Council Education and LMS Committees 2012-  
Faculty Professional Development Day Planning Committee 2006-2007  
Technologies in Instruction Advisory Committee 2005-2007  
Information Technology Advisory Committee 2004-2007  
Budget Advisory Committee 2004-2006  
School of Education Accreditation and Electronic Portfolio Committee 2004-2006  
Website Advisory Committee 2003-2007  
Strategic Planning Study Group - Academic Excellence 2004-2005  
Technology for Academic Productivity Seminar Series 1994-1999  
University Libraries Internet Committee 1995-2000  
Division of Continuing Education Advisory Committee 1997-1999  
Computer Advisory Committees for Colleges of Business, Education,  
Liberal Arts & Sciences, and Visual & Performing Arts  
UNIV 101: The First Year Experience 1996-1999  
Provost's Committee for Improvement of the Undergraduate Experience 1996  
Faculty Resource Network 1994-1998  
Designee for Dean of the Graduate School at doctoral dissertations 1992-1999  
Journal of Chemical Education, Reviewer 1992-1999  
Chicago Metropolitan Public School Science Fair, Judge 1982-2001  
Chicago District One Public School Science Fair, Judge 1985-2001

## **AGGREGATED RESPONSIBILITIES**

Promote and provide support for the use of information and communication technologies in offices, in research and in the curriculum

Manage the reliable operation of the university administrative, mail, web, course content, and file servers; the university voice and data networks, access to the Internet, voice over IP services and the university identification and debit card system

Manage university support for office productivity, multimedia, course content management, operating system, synchronous and asynchronous communications, and research software through analysts, workshops and documentation

Manage the operation of university computer labs and the support of students and instructors in the labs

Manage the installation, configuration and access of software on lab and other servers

Manage the purchase, distribution and metering of software site licenses and volume purchase agreements

Address system and network acceptable use issues with students and faculty

Maintain extensive contact with faculty, staff and students and a strong awareness of their needs in order to identify services to accommodate changing needs

Develop strategic plans and budgets to optimize university information technology resources

Develop strategies for acquisition and utilization of university computer and telecommunications systems and services

Managed a small academic department with extensive technical instrumentation and supply needs.

Collaborated on the development of the university general education curriculum.

Taught ten courses including physical and analytical chemistry and graduate kinetics and thermodynamics, developed course on laboratory automation, and pioneered use of software applications in student assignments and course management.

Developed mathematical tools for the analysis of surface phonon spectral distributions, correlation functions, time series, and singularities in the distributions using properties of orthogonal polynomials.

Developed numerical analysis routines and used libraries in Fortran, ALGOL, and C within Unix as a scientific programmer/analyst.

## PRESENTATIONS

*Rights, Wrongs, Ethics, and Liabilities; and Flipping the New Faculty Orientation*  
SLATE 2013 Conference, October 2013, Naperville, IL

*Looking for Trouble ... in the Blackboard Grade Center*  
SLATE 2012 Conference, October 2012, Naperville, IL

*Using Blackboard Learn for the Display of Visual Content from Lab and Lecture at UIC*  
(with Alison Doubleday and Nancy Norman, University of Illinois at Chicago)  
SLATE 2011 Conference, October 2011, Chicago, IL

*Improving the Sensitometric and OECF Standards: Recognizing the Photosensitive Exposure Range*  
SPIE-IS&T Electronic Imaging, January 2011, San Jose, CA

*Reviewing the Exposure Meter Constant: Improving the Exposure Equation*  
SPIE-IS&T Electronic Imaging, January 2010, San Jose, CA

*Leading Faculty and Creating Change*  
(with Janet DeVry, University of Delaware)  
ACM SIGUCCS Computer Services Management Symposium, March 2004, Santa Fe, NM

*Seven Years' Good Luck: Changing the Labs at a Regional University*  
(with Nanette Suitts, Northern Illinois University)  
ACM SIGUCCS User Services Conference, October 1996, Chicago, IL

*Changing Services: Clients, Quality, and Collaboration*  
ACM SIGUCCS User Services Conference, November 1993, San Diego, CA

*Analysis of Surface Spectral Densities Using Modified Moment Methods*  
Illinois Institute of Technology Chemistry Colloquium, December 1985, Chicago, IL

*Analysis of the Vibrational-Rotational Spectrum of Diatomic Molecules*  
American Chemical Society Regional Meeting, May 1984, Kalamazoo, MI

*Calculation of Surface Debye-Waller Factors for Harmonic Solids*  
American Chemical Society Regional Meeting, May 1982, Minneapolis, MN