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EXPERIENCE:

2000 – Present: Administration, Arizona State University

Associate Director, The Biodesign Institute at ASU, Tempe, AZ, 2002 to present.

- Responsible for multiple operational elements in the formation of the new research institute on the ASU campus. Serves as the point of contact between the Institute and potential institutional and industrial partners. Managed several special projects including oversight of the programming and design of the new 350,000 sq ft Biodesign facilities on the Main Campus and the Arizona Biomedical Collaborative building at the Phoenix Bioscience Center. The Biodesign Institute buildings received the R&D Magazine 2006 Lab of the Year Award.

Industrial Liaison, Office of the Vice Provost for Research, Tempe, AZ, 2000 to 2002.

- Responsible for ASU research industrial relations, the promotion of technology transfer, and the mining of new technology opportunities.

1979 – 2000: Research and Development, The Procter & Gamble Company.

Director, Technology Development, Skin Beauty Care Division, Cincinnati, Ohio, 1996 to 2000.

- Leader of P&G's global, upstream technology development effort supporting \$4 billion skin care, color cosmetics, and personal cleansing/hygiene business; managing an organization of 90+ scientists and engineers.
- Responsibilities included setting long-term strategic direction and supervising discovery efforts through to the development of consumer or clinically tested prototypes.
- Skin care research identified breakthroughs for the problems of acne, skin aging, inflammation, and environmental damage. Programs in material science and formulation technologies have delivered innovations for lip colorings, nail polishes and foundations. Personal hygiene programs identified superior antimicrobials, substantive skin protectants, and pioneered exploration of enzymes for personal care.

Director, Oral Care Product Development, Health Care Division, Cincinnati, Ohio, 1991 to 1996.

- Leader of P&G's North American Product Development organization supporting \$800+ million Oral Care business. Also responsible for the coordination of Global Oral Care R&D and Asia-Pacific expansion of oral care products.
- Responsibility involved managing a diverse organization of 130+ scientists and engineers. The product line-up supported included dentifrice, toothbrushes, oral rinses, denture care products, and prescription oral care products. Managed the transition of the organization into new research facilities at the P&G Health Care Research Center at Mason, Ohio.

Associate Director, Oral Care Product Development, Health and Beauty Care, Europe, Egham, England, 1989 to 1991.

- Leader of European Oral Care Product Development organization (30+ staff) supporting a complex assortment of OTC and Dental Professional brands resulting from the combination of P&G's business with the acquisitions from Richardson-Vicks and Blendax.
- Responsibilities demanded a heavy focus on building a strengthened technical organization at this acquired technical center which networked with P&G's global operations.

Associate Director, Oral Care Product Development, Health and Beauty Care, Europe, Mainz, Germany, 1988 to 1989.

- Manager of P&G's European Oral Care Development organization while also responsible for the integration of the P&G and Blendax organizations after the acquisition of the Blendax Company in Mainz, Germany and the transition of the technical support effort back to Egham, England.

Section Head, Oral Care Product Development, Richardson-Vicks Division, Europe, Egham, England, 1986 to 1988.

- Responsible for the integration of the P&G and Richardson-Vicks European Oral Care Product Development organizations at the Richardson-Vicks European Technical Center in Egham.

Section Head, Gastrointestinal Products, Health Care Division, Cincinnati, Ohio, 1984 to 1986.

Group Leader and Staff Scientist, Oral Care Product Technologies, Toilet Goods Division, Cincinnati, Ohio. October 1979 to June 1984.

- Responsible for hard tissue and caries research and Fluoride mechanisms studies.

CURRENT AFFILIATIONS/APPOINTMENTS:

Aslan Society, Arizona State University (2000)
 Center for Bioethics and Human Dignity (2002)
 Board of Directors, Arizona BioIndustry Association (2004)
 Vice-Chairman, Arizona BioIndustry Association (2005)
 Stem Cell Research Study Committee, Arizona State Legislature (2006)
 Arizona Proteomics Alliance, Administrative Director (2006)

EDUCATION:

Ph.D. Physical Chemistry, Arizona State University, Arizona, 1979.
M.Sc. Chemical Physics, Simon Fraser University, B. C., Canada, 1977.
B.Sc. Chemistry, Arizona State University, Arizona, 1974.

PUBLICATIONS:

M. J. Mobley, "A Re-examination of Time and Special Relativity Assuming a Constant Speed for Quantum Subcomponents," Physics Essays, 18, No. 3, (2005), 403-422.

M. J. Mobley, "The nature of light: a description of photon diffraction based upon virtual particle exchange," in *The Nature of Light: What Is a Photon?*, ed. by Chandrasekhar Roychoudhuri, Katherine Creath, Al F. Kracklauer, Proceedings of SPIE Vol. 5866 (SPIE, Bellingham, WA, 2005) pp. 172-182.

D. J. White, R. A. Lueders and **M. J. Mobley**, "A Comparison of *In vitro* Remineralization from Fluoride Dentifrices," J. Dent. Res., 63: Abstracts, No. 624, (1984).

M. J. Mobley, A. K. Biel and W. W. Briner, "Dose Response for Fluoride and Monofluorophosphate in the Rat Caries Model," J. Dent. Res., 63: Abstracts, No. 608, (1984).

M. J. Mobley, R. V. Faller, D. J. White and J. P. Yesinowski, "Fluoride Surface Reactions with Synthetic Hydroxyapatite and Human Enamel," Caries Res., 18: Abstract 39, No. 2, (1984).

T. R. White, S. P. Hsu, **M. J. Mobley** and W. S. Glaunsinger, "Magnetic-Properties of Metal-Ammonia Compounds," J. Phys. Chem. 88, No. 17, (1984), 3890-3895.

J. P. Yesinowski and **M. J. Mobley**, "¹⁹F MAS-NMR of Fluoridated Hydroxyapatite Surfaces," J. Am. Chem. Soc., 105, (1983), 6191-6193.

M. J. Mobley and J. P. Yesinowski, "The Fluoride-Hydroxyapatite Reaction Studied by ¹⁹F Magic-Angle Spinning NMR," J. Dent. Res., 62: Abstracts, No. 1184, (1983).

J. P. Yesinowski, R. A. Wolfgang and **M. J. Mobley**, "New NMR Methods for the Study of Hydroxyapatite Surfaces," in Adsorption on and Surface Chemistry of Hydroxyapatite, Misra, D. N., Ed., Plenum Press, New York (1983).

M. J. Mobley, "Fluoride Uptake from *In situ* Brushing with a SnF₂ and a NaF Dentifrice," J. Dent. Res., 60, No. 12, (1981), 1943-1948.

M. J. Mobley and W. S. Glaunsinger, "Deuteron Magnetic Resonance in Ca(ND₃)₆: Evidence for a planar Ammonia Geometry," Chem. Phys. Lett., 81, No. 1 (1981), 159-163.

M. J. Mobley and W. S. Glaunsinger, "Anomalous Magnetic Susceptibilities of the Alkaline Earth Hexammines," Sol. St. Comm., 40, (1981), 357-361.

M. J. Mobley, W. S. Glaunsinger and J. C. Thompson, "Electrical Resistivity of Ca(NH₃)₆, Sr(NH₃)₆, and Ba(NH₃)₆," J. Phys. Chem., 84, No. 10 (1980), 1168-1171.

M. J. Mobley, W. S. Glaunsinger and R. F. Marzke, "Spin-Lattice Relaxation in the Alkaline Earth Hexaammines," J. Phys. Chem., 84, No. 10, (1980), 1129-1133.

M. J. Mobley, W. S. Glaunsinger and J. C. Thompson, "Electrical Resistivity of Solid Ca(NH₃)₆, Sr(NH₃)₆, and Ba(NH₃)₆," B Am. Phys. Soc., 24, No. 3, (1979), 409.

M. J. Mobley, Rieckhoff K. E. and E. M. Voigt, "Spectroscopic Studies on Conformations of Electron Donor-Acceptor Complexes of Tetracyanoethylene," J. Phys. Chem., 82, No. 18, (1978), 2005-2012.

M. J. Mobley, K. E. Rieckhoff and E. M. Voigt, "Temperature Dependence of Multiple Charge-Transfer Bands in PI-PI Electron Donor-Acceptor Complexes," J. Phys. Chem. 81, No. 8, (1977), 809-810.

M. J. Mobley and W. S. Glaunsinger, "A Rocking Furnace for Homogenization of Melts," Rev. Sci. Instrum., 46, No. 930, (1975).

PATENTS:

Mobley, Michael J; Page, Steven H; Beerse, Peter W; Biedermann, Kimberly A; Morgan, Jeffrey M; "Antimicrobial Compositions Comprising a Benzoic Acid Analog and a Metal Salt" US 6,294,186 (2001).

Berry, Gregory; Lukacovic, Michael F; **Mobley, Michael J**; Padolik, Peter A; "Oral Compositions; Dentifrices with Copper Glycinate and Carriers" US 5496539 (1996).

Mobley, Michael J; Lukacovic, Michael F; Padolik, Peter A; Berry, Gregory; "Oral compositions containing copper diglycinate effective against diseases" US 5389360 (1995).

Mobley, Michael J; Lukacovic, Michael F; Padolik, Peter A; Berry, Gregory; "Oral Compositions containing bisglycinate" WO 9426243 (1994).

Mobley, Michael J; "Dentifrices and mouthwashes containing calcium and fluoride ion sources and calcium sequestering agents" EP 89136 (1983)

RECENT PUBLIC LECTURES:

"Contributions of the Biodesign Institute to the Advance of the Biosciences" BIO Legislative Symposium, November 8, 2005

"Embryonic Stem Cell Research: An Examination of Scientific and Ethical Issues" Aslan Society, September 21, 2005

"The nature of light: a description of photon diffraction based upon virtual particle exchange", at The Nature of Light: What is a Photon? Conference, SPIE, August 2, 2005

"How are ASU and The Biodesign Institute Impacting Economic Growth in Arizona?" Arizona Career Real Estate Women, April 19, 2005.

"Embryonic Stem Cell Research: An Examination of the Scientific, Ethical, and Political Issues", Phoenix MENSA Society, Oct. 8, 2004.

"ASU's Investment In Bioscience Research Infrastructure", Arizona Bioindustry Association, Sept. 14, 2004.

"The Arizona Biodesign Institute at ASU", ASU Retirees Association, Feb. 22, 2004.

"Finding a Footing on a Slippery Slope: An Examination of the Ethics of Embryo Cell Research", Canyon Institute for Advanced Studies, Grand Canyon University, Jan. 22, 2004

"The Formation of the Arizona Biodesign Institute", Arizona Bioindustry Association, March 13, 2003

"Research at the Arizona Biodesign Institute", 2003 Biomedical Gerontology Symposium, Feb. 7 2003.