

MICHAEL L. LESIECKI
Biographical Sketch

PROFESSIONAL PREPARATION

Ph.D. Physical Chemistry, Oregon State University, 1975, Corvallis, OR
B.S. Chemistry, Illinois Institute of Technology, 1971, Chicago, IL

APPOINTMENTS

- 1996-date **Executive Director and Principal Investigator, MATEC** **TEMPE, AZ**
The Maricopa Advanced Technology Education Center (MATEC) is a member of the Academic Affairs Division of the Maricopa Community Colleges. MATEC is a permanent center of excellence in support of education and workforce development needs for the semiconductor, automated manufacturing and electronics industries. The director supervises the staff of 12, administers the budget and leads the effort to expand the interests and activities of the Center. (www.matec.org)
- 1993-1996 **President, SCION SCIENTIFIC INC** **CAPE CORAL, FL**
Scion was a company formed to develop unique applications of cost effective, medical technology. Developments included non-invasive patient monitors for use in ophthalmology, dermatology and cardiology. The president directed day to day operations, initiated collaborative efforts and raised capital through grant sources.
- 1988-1993 **CANDELA LASER CORPORATION** **WAYLAND, MA**
Candela was a publicly held corporation with over 200 employees and revenues in 1992 of \$35 million.
- 1991-1993 **Director BioScience Division**
The director supervised a group of ten (including three Ph.D.s) in scientific and medical areas including basic laser and clinical research; development of new instruments and applications; and regulatory agency approvals.
- 1990-1991 **Manager, Biotechnology Department**
Managed a group of five in medical applications research.
- 1988-1989 **Senior Scientist**
Developed new laser applications with particular emphasis on medical areas.
- 1982-1988 **UNIVERSITY OF PUERTO RICO** **RÍO PIEDRAS, PR**
Associate Professor of Chemistry and Chemical Physics
- 1980-1982 **EXXON NUCLEAR COMPANY** **RICHLAND, WA**
Senior Scientist: Physical Chemist
- 1975-1980 **UNIVERSITY OF UTAH** **SALT LAKE CITY, UT**
Assistant Research Professor of Chemistry

PUBLICATIONS

27 on medical and technology applications in peer reviewed journals.
Most recent technical publications:

U. Klingbeil, J. Canter, M. Lesiecki, "A Laser Based Fundus Camera for IR Angiography," *Opt. Eng.* **34**, 775 (1995).

M. Quigley, J. Maroon, T. Shih,, A. Elrifai, M. Lesiecki, "Laser Discectomy: Comparison of Systems," *Spine* **19**, 319 (1994).

R. Hill, D. Stern, M. Lesiecki, et al., "The Effects of Pulse Width on Laser Trabecular Ablation (LTA)," *Lasers in Surgery and Medicine* **13**, 440 (1993).

PATENTS

Infrared Fundus Videoangiography System, #5400791

RECENT CONFERENCE PRESENTATIONS

"Development of Skill Standards for Technicians Working in Highly Automated Environments," IEEE Advanced Semiconductor Manufacturing Conference, Boston, MA, 2002.

"Challenges and Career Opportunities in Technical Education – Keynote Address," Texas Technical Society, 32nd Annual Conference, Austin, TX, 2002.

"Development of Skill Standards – A Key Component of Effective Manufacturing Processes," SEMICON China, Shanghai, 2003.

"A Systems Approach to Automation Education and Training," presented at the IEEE Advanced Semiconductor Manufacturing Conference, Boston, 2004.

"Technical Programs – Here to Stay or Too Expensive to Maintain?" A focus session at the American Association of Community Colleges conference, Tampa, 2007

SYNERGISTIC ACTIVITIES

Service on nine NIH special study sections on "Laser Tissue Interaction and Biomedical Engineering," for the review of scientific grant applications, 1991 to 1996. Service on review panels for NSF ATE and PFI grant applications, 1997-2006. Member, National Visiting Committee for: MnNANO project, Dakota County Technical College, MN; The CAPT National Center, TX; and the Nanotechnology Manufacturing Regional Center, Penn State University.

SERVICE ACTIVITIES

Member, Board of Trustees, the SEMI Education Foundation,
<http://wps2a.semi.org/wps/portal/pagr/113/pa.113/246> San Jose, CA.