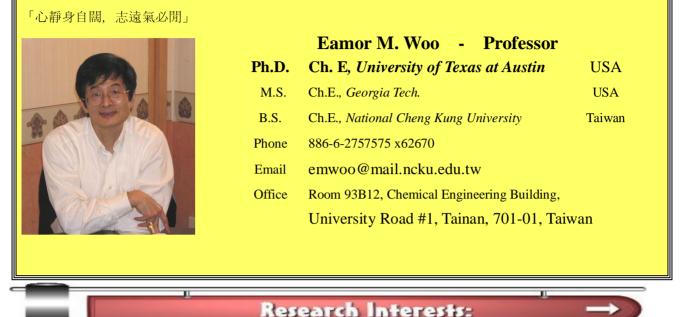
National Cheng Kung

University

Chemical Engineering





Experiences:

Professor, Ch.E Dept., National Cheng Kung University, (1992-present). **Endowed Professor** of NCKU (2002-present).

Research Interests/Specialty:

-Polymer physics; crystal morphology; crystallization; thermal properties, phase behavior, -Polymer blends; miscibility; engineering plastics; structure-property, characterization,

-Epoxy networks; cure kinetics, advanced and nano-composites,

-Epoxy networks, cure kinetics, advanced and nano-composit

- Nano-structured polymers, polymers for microelectronics.

Academic Honors/Awards:

Research Excellence Award -I (National Science Council), 1996-1998 (2 consecutive years).
Research Excellence Award -II (National Science Council), 1999-2000 (2 consecutive years).
Research Excellence Award -III (National Science Council), 2001-2002 (2 consecutive years).
Research Excellence Award -IV (National Science Council), 2002-2004 (3 consecutive years).
NSC-endowed P.I. Research Award (2005-2007, 3-years).
NCKU Engineering College - Research Awards (2001 and 2002)
Prof. Lai's Memorial Award for Scholarly Research (1997).
Education Ministry Award for Best Doctoral Thesis Advisor (1997).
NSC Award for Best Undergraduate Students' Paper (Advisor) (1995).
Kolin, Inc. Award for Best Doctoral Thesis Advisor (2003).
Kolin, Inc. Award for Best Master's Thesis Advisor (2004).

International Experiences:

Instructor, August 1989. *Course:* "Thermal Analysis and Viscoelastic Characterization for Polymers and Composites, an International Workshop," held at **Tokyo, Japan**.

Instructor, June 1989. *Course taught*: "Thermal Analysis Workshop," held at University of Washington. (USA).

<u>Special Lecturer</u>, September-December, 1990, *Course taught*: "Polymeric Materials Engineering", open to engineers/ technical employees of the Boeing Company, Seattle, (USA.)

<u>*Co-Instructor*</u>,1986, 1988, and 1989, Dept. of Chem. Eng, University of Washington. **Two courses taught**: "Polymer Physics and Engineering" and "Polymer Composites", (USA).

Senior Specialist Engineer, Boeing Company (Seattle, USA) 1990-1992.

Assistant Research Professor, Univ. of Washington, Ch.E Dept. (Seattle, USA) 1988-1990.

Visiting Professor, Dept of Polymer Science, Peking Univ., Beijing, China (July-August, 2001, with Prof. Q. F. Zhou).

Visiting Professor, Dept of Polymer Chemistry, Kyoto Univ., Kyoto, Japan. (September – December 2001, with Prof. S. Ito).

Current Teaching Courses (Graduate & Undergrad. Curriculum):

- 1. **Polymer Physics (Graduate).**
- 2. Instrumental Analysis (Undergraduate/Junior), lecture and laboratory classes.
- 3. Mechanical Properties of Polymers (Graduate).
- 4. Polymers for Microelectronics Applications & Manufacturing (Graduate).



Research Group members - photo taken 2004

Publications – (as of 2004 year)

145 papers (all refereed and archived), SCI- and EI-indexed in top-ranked scientific journals. (All Publications (SCI- and EI-indexed) may be searched, listed, or downloaded by keying in "Woo EM" in internet web databases linked to and pre-approved by libraries.)

+ More than 200 conferences papers or presentations.