

**1. Name and Academic Rank**

Lih-Min Hsia, Professor

**2. Degrees with fields, institution, and date**

- 1979 Doctor of Philosophy  
University of California, Davis  
Mechanical Engineering  
Specialization: Theoretical Kinematics
- 1974 Master of Engineering in Engineering Mechanics  
Cornell University  
Specialization: Nondestructive Testing Techniques
- 1973 Master of Science in Mechanical Engineering  
Cornell University  
Specialization: Thermal Sciences
- 1970 Bachelor of Science in Mechanical Engineering  
National Taiwan University

**3. Number of years service on this faculty, including date of original appointment and dates of advancement in rank**

Date of original Appointment: 9/83  
Promoted to Professor 9/89  
Number of years service: 22

**4. Other related experience--teaching, industrial, etc.**

Academic Experience:

- 1991 Visiting Research Professor  
National Sun Yat-Sen University, Kaohsiung, Taiwan
- 1980 to 1981 Senior Lecturer  
University of Southern California, Los Angeles
- 1979 Lecturer  
University of California, Davis
- 1977 Lecturer  
California State University, Chico

Industrial Experience:

- 1979 to 1983 Member of Technical Staff  
Hughes Aircraft Company, Los Angeles CA

**5. Consulting, patents, etc.**

- Consulting: Consultant at Jet Propulsion Laboratory, TRW, The Boeing Company, and CMA Forging Company
- Patent: Multi-stage Geneva Mechanism  
U.S. Serial Number 4,282,778

**6. State(s) in which registered**

- 1982 Registered Professional Mechanical Engineer (California)  
License Number M21350

**7. Principal publications of last five years**

Hsia, Lih-Min, Lou, Michael, Fang, Houfei & Huang, John (2004), Deployment of A 7-Meter Inflatable Reflectarray Antenna, AIAA 2004-1502, presented at the 45th AIAA/ASME/ ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, Palm Springs, California

Hsia, Lih-Min, Lou, Michael, Fang, Houfei, Huang, John & Kerdanyan, Gregor (2004), Inflatable Structure for a Three-Meter Reflectarray Antenna, AIAA Journal of Space and Rockets, Vol.41, No.4, pp.543-550.

Hsia, Lih-Min, Lou, Michael & Fang, Houfei (2003), Thermal Distortion Analyses of A Three-Meter Inflatable Reflectarray Antenna, AIAA paper 2003-1650, presented at THE 4TH AIAA GOSSAMER SPACECRAFT FORUM, Norfolk, Virginia.

Hsia, Lih-Min, Lou, Michael & Fang, Houfei (2002), Development of A Three-Meter Ka-Band Reflectarray Antenna, AIAA paper 2002-1706, presented at THE 3RD AIAA GOSSAMER SPACECRAFT FORUM, Denver, Colorado.

Hsia, Lih-Min, Lou, Michael & Fang, Houfei (2001). Catenary Systems for Membrane Structures PROCEEDINGS OF THE 2001 AIAA STRUCTURES, STRUCTURAL DYNAMICS, AND MATERIALS CONFERENCE, Seattle, Washington.

Hsia, Lih-Min, Lou, Michael & Fang, Houfei (2000). A Combined Analytical and Experimental Study on Space Inflatable Booms. PROCEEDINGS OF THE 2000 IEEE AEROSPACE CONFERENCE, 2000 IEEE Aerospace Conference, Big Sky, Montana.

Hsia, Lih-Min, Lou, Michael & Fang, Houfei (2000). Development of Space Inflatable/Rigidizable CTR Aluminum Laminate Booms. AIAA Space 2000 Conference, Long Beach, CA.

**8. Scientific and professional societies of which a member**

American Society of Mechanical Engineers  
 Society of Automotive Engineers  
 American Institute of Aeronautics and Astronautics

**9. Honors and awards**

Pi Tau Sigma Mechanical Engineering Honor Fraternity

**10. Institutional and professional service in the last five years**

College Committee Service  
 2001-2002                      College Instructional Affairs Committee  
 2002                              College RTP Committee  
 2005                              College Associate Dean Search Committee

Department Committee Service  
 2003 – 2004                      Department RTP committee

**11. Professional development activities in the last five years**

Grants received:

1/99 – Present	Jet Propulsion Laboratory A multi-year grant to conduct research on inflatable boom technology for space applications
2004	National Science Foundation A grant to Initiate an International Educational Exchange Program with Tongji University in China
2002	A CSULA mini-grant to develop a robotic sampling system ("tram") for continuous, autonomous sampling in the field
3/98 – 3/01	NASA-Dryden A three-year grant to study the control structure interaction in large flexible space structures