

P. Michael Linzmaier

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EXPERIENCE:

Senior Vice President and Chief Academic Officer:

ITT Education Services, Inc.,
January 2009 – Present

Manages the Academic Affairs and Curriculum Development departments. Directly supervises the Vice President of Academic Affairs and the Vice President of Curriculum Development. Academic responsibilities include determining operational strategies and policy with respect to student learning assessment, student retention, faculty development, faculty qualifications, and all policies associated with academic affairs. Curriculum responsibilities include all aspects of centralized courseware development for both residence and distance education.

District Manager

ITT Technical Institute,
TX District September 2007 – January 2009

Responsible for the oversight and management of nine institutions throughout Texas and Oklahoma. Major responsibilities are the P&L of all institutions and multi-year strategic planning to ensure accomplishment of goals and objectives. Directly supervise College Directors to ensure timely and proper action relative to program implementation, business expansion, marketing activities, career services support, academic activities, student retention, financial management and facility improvements. Provide leadership with respect to the direction, motivation, and development of all college managers. Serves as the District Ethics and Compliance officer and monitors college operations to maintain compliance in all areas.

College Director

ITT Technical Institute,
Henderson, Nevada, July 2005 – Present; Murray, Utah, August 2003 – July 2005

Serves as the chief administrator for Bachelor and Associate degree granting institutions; one main campus and a learning site. Directly responsible for all aspects of local operation including: planning, budgeting and directing Education, Financial, Career Services, Recruitment and Student Services functions, compliance with local and federal laws and regulations, ACICS compliance, recruiting, training and developing key managers, as well as managing all fiscal aspects.

Dean of Academic Affairs

ITT Technical Institute, Thornton, Colorado, August 2000 – August 2003

Serves as the chief academic officer and directly supervise the Associate Dean, School Chairs, and faculty members. Responsibilities included retention of students, adherence to accreditation guidelines, student relations, library compliance, hiring, training and evaluating of instructors, scheduling of instructors, laboratories and classrooms, and ultimately all aspects relating to the education of students. Served as a member of ITT Educational Services Academic Excellence Committee; a national committee designed to foster discussion and direction between campuses and corporate headquarters.

Education Supervisor

ITT Technical Institute, Thornton, Colorado, May 2000 to August 2000

Serve as the manager of faculty in General Education. Responsibilities included scheduling, counseling of faculty and students, and ensuring adherence to accreditation guidelines.

Instructor

ITT Technical Institute, Thornton, Colorado, Nov 1999 to May 2000

Instructor of college mathematics for students in Electronics Engineering, Computer Aided Drafting, and Computer Networking Systems Technology.

Teaching Assistant

Washington State University, Pullman, Washington, Jan. 1991 to Dec. 1997

Substitute instructor for chemical engineering courses. These courses were sophomore through graduate student level.

Academic Advisor and Student Counselor

Colorado State University, Ft. Collins, Colorado, Aug. 1990 to May 1991

Engineering Tutor

Colorado State University, Ft. Collins, Colorado, Sept. 1989 to May 1990

Tutored students in all levels of calculus, physics, chemistry, and chemical engineering.

EDUCATION:

Washington State University, Pullman, WA

Ph.D., Chemical Engineering, Dec., 1997

M.S., Chemical Engineering, Sept., 1993

- ◆ National Institute of Health Biotechnology Fellowship

Colorado State University, Ft. Collins, CO

B.S., Chemical Engineering, May, 1991

- ◆ Outstanding Scholar, Omega Chi Epsilon, 1991
- ◆ Most Valuable Senior, 1991

ACADEMIC RESEARCH

Research Assistant

Washington State University, Pullman, Washington, Sept. 1991 to Dec 1997

Ph.D. and
M.S. student
investigating
the production
of monoclonal
antibodies and
cytokines in
plant tissue
culture.
Coordinated
research in 3
labs and
managed one
lab with
several
graduate
students.

Research Assistant

Colorado State University, Ft. Collins, Colorado, Aug. 1990 to May 1991

Assisted a graduate student with bioremediation research. Responsible for performing bacterial fermentation experiments and computer analysis of results.

Thomas D. Bledsaw

SUMMARY

- Member of the American Institute of Architects (Member Number 30321490)
- Board of Directors for the American Design Drafters Association
- Experience teaching basic and advanced AutoCAD and Engineering Graphics in several different design disciplines
- Extensive use of CATIA in the Defense Industry.

EDUCATION

University of Texas, Arlington, TX

School of Architecture

September 1995 to 1997

- Completed general course work in architecture

Northeastern State University, Tahlequah, OK

Master of Science Degree – Industrial Engineering Technology

1985 to 1986

- Program included an emphasis in operations and production management
- Thesis Title: Implementing a Computer-Aided Design System for the Northeastern State University Physical Plant.

Northeastern State University, Tahlequah, OK

Bachelor of Science Degree – Industrial Design Technology

1980 to 1985

- Course work included: Electronic Drafting and Design, Mechanical Drafting and Design, and Architectural Drawing and Design.
- Independent study title: Static and Strength of Materials

EXPERIENCE

ITT Educational Services, Carmel, IN

National Chair, School of Drafting and Design

1997 to Present

- Responsible for the development and implementation of the Computer-Aided Drafting and Design and Construction Management programs for ITT Technical Institutes. This position requires monitoring industry trends and staying current with technology. Surveying appropriate software and managing a team of technical writers and instructional designers to ensure timely delivery of course curriculum.
- Manage technical support and training to our CAD instructors across the country.

ITT Technical Institute, Arlington, TX

Education Supervisor

1994 to 1997

- Planned, organized and directed the Education Department to include staffing, training, evaluating and motivating personnel to achieve departmental objectives

ITT Technical Institute, Arlington, TX

CAD Instructor

1991 to 1994

- Taught basic and advanced AutoCAD and Engineering Graphics in several different disciplines.
- CAD Instructor of the Year, for the state of Texas, 1992

General Dynamics, Ft. Worth, TX

Engineering Design Drafter

1987 to 1991

- Checked and prepared new/changed organization level schematics and component location drawings for the F-16 and A-12 fighter aircraft.
- Provided training on CADAM and CATIA computer graphic systems for other personnel in my workgroup
- DOD Security Clearance

Northeastern State University, Tahlequah, OK

Drafter

1987 to 1991

- Prepared architectural, mechanical, and electrical working and presentation drawings for renovations and new construction on campus.

PUBLICATIONS

- Bledsaw, T. and Gow, G. The Future of the Design and Construction Industries. Plan and Print. N60, No. 9 September 1987.
- Bledsaw, T. and Gow, G. Architecture and Four-Dimensional Graphics. Plan and Print. N57, No. 11 November, 1984

REFERENCES

- References available upon request

WEN LIU

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wliu@itt-tech.edu

EDUCATION

- M.S. Information and Communication Sciences, Ball State University, Muncie, Indiana, 1996
- M. A. Student Personnel Administration in Higher Education, Ball State University, Indiana, 1994
- Certificate Teaching Language to Adults, Auckland Technical Institute, Auckland, New Zealand, 1986
- B. A. English Language and Literature, Xi'an Foreign Languages University, Xi'an, China, 1982

HIGHER EDUCATION EXPERIENCES

- 2009 - National Chair, School of Information Technology, ITT Educational Services, Inc., Carmel, Indiana
- 2005 – 2009 Director of Curriculum Development, ITT Educational Services, Inc., Carmel, Indiana
- Responsible for managing the research and development of academic curricula for over 20 associate's and bachelor's programs currently offered in the School of Drafting & Design, School of Electronics Technology, and School of Information Technology over 90 ITT Technical Institutes across the states
- 1999 – 2004 Corporate Curriculum Manager, ITT Educational Services, Inc., Carmel, Indiana
- Responsible for creating and ongoing research and development of academic curricula for 8 associate's and bachelor's degree programs currently offered in the School of Information Technology of ITT Technical Institute in over 90 campuses across the states
- 1992 – 1993 Visiting Fellow, English Dept, Ball State University, Muncie, Indiana
- Conducted research in partnership with professors and graduate students in applied and social linguistics and American Studies
- 1987 – 1991 Director of Academic Affairs, Study Abroad Training Institute, Xi'an Foreign University, Xi'an, China
- Responsible for managing academic affairs for the department that provides language and cultural training to prepare state-sponsored graduate students and scholars who are to study abroad in various academic fields in English-speaking countries

- 1985 – 1987 Exchange Fellow, Dept. of Asian Languages and Literature, Auckland University, Auckland, New Zealand
- Taught courses in comparative language and cultural studies; conducted research projects with professors and graduate students in areas of applied and social linguistics and adult language learning
- 1982 – 1985 Assist. Professor, Study-Abroad Programs, Xi'an Foreign Languages University, Xi'an, China
- Taught courses in comparative cultural studies, education systems in various English-speaking countries, and English language acquisition

EMPLOYMENT

- 2009 - National Chair, School of Information Technology, ITT Educational Services, Inc., Carmel, Indiana
- 2004 – 2009 Director of Curriculum Development, ITT Educational Services, Inc.
- 1999 – 2004 Corporate Curriculum Manager, ITT Educational Services, Inc.
- 1998 – 1999 Senior Network Analyst, National Headquarters, ITT Educational Services, Inc., Indianapolis, Indiana
- 1996 – 1998 Telecommunications Analyst, Indiana State Government, Indianapolis, Indiana
- 1995 – 1996 Graduate Assistant to Director of Far East Study Abroad Program, Ball State University, Indiana
- 1993 – 1994 Graduate Assistant to Dean of Students, Ball State University, Muncie, Indiana
- 1992 – 1993 Visiting Fellow, English Dept, Ball State University, Muncie, Indiana
- 1987 – 1991 Director of Academic Affairs, Study Abroad Training Institute, Xi'an Foreign University, Xi'an, China
- 1985 – 1987 Exchange Fellow, Dept. of Asian Languages and Literature, Auckland University, Auckland, New Zealand
- 1982 – 1985 Assist. Professor, Study-Abroad Programs, Xi'an Foreign Languages University, Xi'an, China

OTHER EXPERIENCES

- 2000 – IEEE member
- 1997 – 1998 Board of Directors: Director for Special Projects, Indiana Telecommunications User Association (ITUA)

REFERENCES

Available upon request

STEVE X. SHEN
452 Arbor Drive
Carmel, IN 46032
Phone: (317)706-9215 Fax: (317)706-3042
Email: sshen@itt-tech.edu

EDUCATION

- Ph.D. in Physics, University of California, Riverside, 1986.
- M.S. in Physics, California State University, Los Angeles, 1981.
- Graduate Studies, in Electronics Engineering, Harbin Institute of Technology, June 1978 – September 1979.
- B.S. in Electronics Engineering, Dalian University of Technology, 1970.

WORK EXPERIENCE

National Chair, School of Electronics Technology, ITT Educational Services, Inc., 2006 – present.

- Developed curricula for ITT Technical Institute.
- Managed various curriculum projects associated with publishers and manufacturers.
- Created new programs and courses to meet the needs of industry and job market.

Chair, School of Electronics Technology, ITT Technical Institute, Mt. Prospect, 2000 – 2006

- Served as a SME for students, faculty, and advisory committees regarding academic curriculum and technical information.
- Conducted regular curriculum implementation meetings with faculty and recommended improvement in curriculum design.
- Collaborated with Corporate Curriculum and Academic Affairs management to implement new program curricula, and to ensure program objectives are consistent with catalog and course syllabi and keep abreast of education and technical methodology advancement.
- Coordinated core course academic support programs, certification programs, and student professional associations at the school.
- Screened, interviewed and made recommendations for hiring potential instructors. Orientated new faculty. Coached, observed and advised instructors on improvements of instructional methods and techniques, and provided leadership, direction, motivation and supervision of direct reports. Evaluated performance regularly and recommended corrective action as necessary. Oversaw training and development of staff.
- Guided employees and oversaw their work to ensure compliance with corporate policies and procedures, ethical practices, and the guidelines of government and accrediting organizations.
- Assisted with faculty scheduling and hiring, student problem resolution, implementing new or revised policies and procedures, and student orientation and advising.
- Coordinated with Associate Dean to conduct instructor conferences and professional development sessions to provide technical assistance and advice on information affecting program objectives.
- Developed and implemented student retention strategies.
- Courses taught: *Control Systems, Modern Wireless Communications, Digital Communications, MS Network Operating Systems, LINUX, Novell Netware, Network Systems Management, Visual Basic, C++, JAVA, GUI, Database Development, Software Applications and Programming, Communications Cabling, Data and Network Communications, Process Control, Microprocessors, Advanced Circuit Analysis, Circuit Design, Advanced Communications Systems, Digital Electronics, Analog Electronics, Networking Concepts, PC Technology, Calculus, Physics, Advanced Technical Mathematics, College Mathematics, etc.*

Visiting Assistant Professor, Monmouth College, 1998 - 2000

- Taught *Digital and Microprocessor Electronics, Experimental Methods and Circuit Analysis, C++, Pascal, Optics, Quantum Mechanics, Astronomy, Electrodynamics, Modern Physics, and Statistical Mechanics.*
- Supervised senior students' independent study and research.
- Served on Faculty Committees.

Senior Engineer, Mid Missouri Office Equipment, 1996 - 1998

- In charge of designing, implementing, and managing network systems.
- Completed three million-dollar projects in designing and implementing network systems in high-rise office buildings.
- Created application software packages for network applications.
- Supervised and trained engineers and technicians.

Professor, Department of Electronics Engineering, Tsinghua University, 1992 – 1997.

- Directed research & development on optical and physical electronics, such as computer interfacing for electronic measurements and digital control, CAI, CAD, space vacuum simulation, nanometer-scale focused ion beams & fine fabrication, ultra-high vacuum, surface analysis techniques, etc.
- Accomplished six research projects in nanometer-scale science and technology, surface reaction dynamics, phonon effects, catalysis, etc., supported by the National Natural Science Foundation.
- Headed and organized cooperative projects in information materials, devices, and electronics among several universities and laboratories, supported by the National Natural Science Foundation.
- Supervised postdoctoral associates and (Ph.D. and M.S.) graduate students. Trained electronics technicians.
- Taught graduate courses: *Recent Advances in Physical Electronics and Optoelectronics, Quantum Electronics and Optics, Scientific Computations, Circuit Analysis and Design, Modern Analysis Techniques*, and an undergraduate course: *Quantum Mechanics*. Wrote the text books of *Computational Physics*, and *Quantum Mechanics*.
- Directed and developed a number of instructional experiments in electronics, optics, and scientific calibration and measurement.

Associate Professor, Department of Electronic Engineering, Tsinghua University. 1989 - 1992.

- Performed research on nanometer-scale science and technology, information devices and systems, and digital control systems, etc.
- Created a number of software packages and programs for scientific computations.
- Succeeded in leading a group of faculty and staff for developing new electronic products.
- Designed and set up multi-purpose UHV equipments for the study and analysis of thin films and surfaces.
- Established methods for computer interfaces in electronic measurements and digital control, and in information systems.
- Taught graduate and undergraduate courses and directed graduate students.

Postdoctoral Fellow, Department of Electronic Engineering, Tsinghua University, 1987 -1989.

- Completed a research project, the Reactive Dynamics of Gas-Surface Interaction, supported by the National Natural Science Foundation.
- Wrote programs for scientific computations, dynamic simulation, and data processing.
- Taught a graduate course: *Quantum Electronics and Optics*.

Research Assistant and Teaching Assistant, University of California, Riverside, 1981 -1986

- Performed research on the dynamics of gas-surface scattering with semi classical trajectory methods and quantum mechanical close-coupling calculations. Created and developed a number of programs for scientific computations.

- Served as a teaching assistant for graduate courses: *Quantum Mechanics, Theoretical Physics*, and for undergraduate courses: *Modern Electronics, E&M, Solid State Physics, Statistical Mechanics*, etc.

Teaching Assistant, California State University, Los Angeles, 1980 -1981.

- Served as a TA for a graduate course: *Modern Physics*, and for *Electronics Circuits and Electronics Labs*.

Electronics Engineer, Harbin Research Institute of Semiconductors. 1970 - 1979.

- Conducted research on semiconductor devices, circuits, and their applications.
- Designed, assembled, calibrated and repaired electronic instruments and equipments for research and manufacture of semiconductor devices and circuits.
- Developed and implemented the methods for quality analysis and control of electronic instruments.
- Developed an automatic digital-control system for grinding machines and put it into production.
- Developed new products of consumer electronics.

OTHER EXPERIENCE

- Senior Member of IEEE.
- Chair, IEEE Central Indiana Section.
- Current member of academic societies of IEEE, AIP, AVS, ASEE, AMATYC, POD, ETA-I.
- IEEE Student Branch Counselor of ITT Technical Institute at Mt. Prospect, Illinois.
- ETA-I Student Chapter Counselor at ITT Technical Institute at Mt. Prospect, Illinois.
- ETA-I Certification Administrator at ITT Technical Institute at Mt. Prospect, Illinois.
- Invited Editor and member of the Organizing Committee of The Fourth International Conference on Nanometer-scale Science and Technology (NANO IV), 1996.
- Member of the Academic Committee of Tsinghua University. 1994 - 1998.
- Member of the Advisory Editorial Board of the Journal of Tsinghua University. 1994 - 1998.
- Member of the Academic Committee of National Laboratory of Surface Science, China. 1994-1998.
- Associate Chief Editor of *Vacuum Science and Technology*, published by the Chinese Vacuum Society. 1993 - 1998.
- Associate Director, Laboratory of Surface Science and Vacuum Technology, Tsinghua University. 1991 - 1997.
- Standing Member of the Editorial Board of *Vacuum Science and Technology*. 1990-1992.

SKILLS AND ABILITIES

- Solid background in computer and electronics engineering and in physical sciences. Capable of designing and implementing digital and analog electronics systems. Sound knowledge in microprocessors, control systems, computer network systems, network and data communications, wireless and digital communications.
- Good knowledge and practice in networking, database, scientific computations, numerical methods, computers, C#, C/C++, JAVA, Visual BASIC.NET, FORTRAN, PASCAL, Perl, SQL, ASSEMBLY, HTML languages, and UNIX, LINUX, Novell Netware, DOS, WINDOWS, VMS, Macintosh operating systems.
- In good command of application softwares: LabVIEW, MS Visual Studio, .NET, MS Visio, Electronic Work Bench (EWB), MultiSim, CommSim/VisSim, MatLab, Auto CAD, MS Access, MS Excel, MS Outlook, MS Powerpoint, MS Word.
- Familiar with modern analysis techniques and instruments, such as MBE, CVD, STM, AFM, AES, XPS(ESCA), TEM, SEM, SIMS, LEED, UHV, etc.
- Well skilled in problem-solving, creating new ideas, trouble-shooting, and working in team with precision.
- Extensive knowledge in mathematics, numerical analysis, chemistry, materials science and engineering.

- Fluent in English and Chinese. Read and speak in Japanese. Read in Russian, French, and German.

HONORS

- *Who's Who in America*, 60th Edition, 2006 and 61st Edition, 2007. VIP Number 31524231.
- *Who's Who Among America's Teachers*, 2003, 2004, and 2005. Who's Who ID#: 0011617.
- *Employee of the Month*, ITT Technical Institute, Mt. Prospect, April 2005.
- *Excellent Award of Contributions and Outstanding Performance*, ITT, Mt. Prospect, 2004.
- *Excellent Award of Exceptional Performance and Innovative Contributions*, ITT Mt. Prospect, 2002.
- *Program Chair of the Year* for the ITT Technical Institute Midwest District, 2001.
- *Employee of the Month*, ITT Technical Institute, Mt. Prospect, September, 2001.
- Awarded the First Prize for *Outstanding Research Work*, by the Chinese Vacuum Society. 1994.
- Motorola Award for *Outstanding Professor*. 1992.
- Awarded the First Prize for *Outstanding Postdoctoral Fellow*, by the Chinese Postdoctoral Foundation. 1988.
- *Honorary Resident of the City of Riverside, California*, for excellence in Ph.D. work. 1986.
- *Special Fellowship to Study Abroad*, awarded by the Education Department of P. R. China. 1979-1981.
- *Outstanding Engineer*, awarded by the City of Harbin. 1977.

PUBLICATIONS

- (1) X. Shen, C. Feng, P. Tian, L. Zhou, *Theoretical Studies of the Dynamics in Gas-Solid Interfaces*, Journal of Tsinghua University, 2000.
- (2) X. Shen, *Dynamics of Molecule-Semiconductor Surface Interaction*, Vacuum Science and Technology, 1998.
- (3) X. Shen, *Computational Physics*, Tsinghua University Press, 1999.
- (4) W. Ho, X. Shen, *Surface Electronics*, Tsinghua University Press, 1998.
- (5) X. Shen, *Quantum Mechanics*, Tsinghua University Press, 1997.
- (6) X. Shen, P. Tian, L. Zhou, *The Interactive Dynamics of Gas Molecule with Semiconductor Surfaces*, in The Proceedings of the Fourth International Conference on Nanometer-scale Science and Technology (NANO IV), Beijing, September, 1996.
- (7) L. Zhou, X. Shen, *Dynamic Study of the Interaction of O₂/Si(100)-2x1*, Vacuum Science and Technology, Vol. 16, 6(1996), 488.
- (8) X. Shen, P. Tian, *Corrugation Effect of Gas-Semiconductor Surface Scattering*, accepted by Vacuum Science and Technology.
- (9) P. Tian, X. Shen, *Modeling a New Empirical Potential of the Interaction between gas and Semiconductor Surfaces*, Vacuum Science and Technology, Vol. 16, 5(1996), 316.
- (10) L. Zhou, X. Shen, *Quasi-classical Trajectory Study of the Interactive Process of O₂ with Si(100) Unreconstructed Surfaces*, Vacuum Science and Technology, Vol. 16, 4(1996), 245.
- (11) L. Zhou, X. Shen, *The LEPS Interaction Potential Model of O₂/Si(100) Unreconstructed Surface*, Vacuum Science and Technology, Vol. 16, 3(1996), 166.
- (12) P. Tian, X. Shen, *Dynamic Study of the Interaction of N₂/Fe(001)*, Vacuum Science and Technology, Vol. 14, 5(1994), 320.
- (13) P. Tian, X. Shen, *A Study of the Interaction Potential of N₂/Fe(001)*, Vacuum Science and Technology, Vol. 13, 6(1993), 431.
- (14) X. Shen, *LEPS Model Potential of Molecule-Surface Interaction*, in Atomic and Molecular Physics, (Jilin University Press, 1992), p266.
- (15) X. Shen, *Theories of the Reactive Dynamics in Gas-Surface Interfaces*, Published by Chinese Center of Advanced Science and Technology(CCAST), 1992.
- (16) C. Feng, X. Shen, *Quasi Classical Trajectory Study of the Scattering of N₂/W(110)*, Vacuum Science and Technology, Vol. 11, 4(1991), 251.
- (17) X. Shen, *Reaction Dynamics of the Scattering of Diatomic Molecule from Metal Surfaces*, in The Proceedings of International Conference on Surface Science and Vacuum Technology, Wuxi, China, (1991), 201.

- (18) C. Feng, X. Shen, *A Model Potential for the Interaction of N_2 with $W(110)$ surface*, Vacuum Science and Technology, Vol.11, 3(1991), 197.
- (19) X. Shen, *Theories of the Dynamics of Gas-Surface Interaction*, invited paper, Vacuum Science and Technology, Vol. 11, 2(1991), 71.
- (20) X. Shen, Y.L. Tan, K.Q. Zhang, *Scattering of O_2 from the $Ag(110)$ Surface*, in Structure of Surfaces III, Springer series in surface science, Vol. 24, edited by S.Y. Tong, M.A. VanHove, et al, (Springer Verlag, Berlin, 1991), p197.
- (21) X. Shen, *Corrugation Effect on the Dynamic Process of Molecule-Surface Interaction*, Vacuum, 41(1-3), (1990), 289.
- (22) X. Shen, *Significance of the Potential Surfaces in Gas-Surface Collision*, in The Selected Papers of the Postdoctoral Association of China, Vol. 2(Tsinghua University Press, 1990), p21.
- (23) X. Shen, *Energy Transfer in the Inelastic Molecule-Surface Scattering*, J. Vac. Sci. Technol., A7(1989), 2132.
- (24) X. Shen, *Dynamic Study of Gas Molecule-Solid Surface Collisions with the Theoretical Approaches*, in The Selected Papers of Postdoctoral Association of China, Vol. 1,(Tsinghua University Press, 1989), p66.
- (25) X. Shen, *Theoretical Aspect of Gas-Surface Interaction*, in The Proceedings of Sino-US Joint Symposium on Vacuum and Surface Science(VASA-87), edited by Z.Y. Hua, (World Scientific, Singapore, 1988), p39.
- (26) B.H. Choi, N.L. Liu, X. Shen, *Selective Adsorption of $H_2/Cu(001)$, II. Quantum mechanical calculation of quasi-bound states*, Surf. Sci., 198(1988), 99.
- (27) B.H. Choi, N.L. Liu, X. Shen, *Selective Adsorption of $H_2/Cu(001)$, I. A quasiclassical trajectory study*, Surf. Sci., 198(1988), 79.
- (28) X. Shen, *Selective Adsorption and Scattering of Hydrogen Molecule on Rigid Copper Surface*, in The Proceedings of Asia Pacific Symposium on Surface Physics, edited by X. Xie,(World Scientific, Singapore, 1987), p296.
- (29) B.H. Choi, N.L. Liu, X. Shen, *Close-Coupling Calculations of $H_2/Cu(001)$ Scattering*, in Condensed Matter Physics, edited by R. L. Orbach, (Springer Verlag, New York, 1986), p82.
- (30) X. Shen, *Theoretical Studies of Molecule-Surface Scattering*, Ph.D. thesis, University of California at Riverside, 1986.

REFERENCES

Available upon request.