

## *Curriculum Vitae*

**GERMÁN R. NÚÑEZ G.**

Vice President – International and Multicultural Affairs  
Director – Center for International and Multicultural Affairs  
Texas Tech University Health Sciences Center  
3601 4<sup>th</sup> St., Suite 2B410  
Lubbock, Texas 79430  
(806) 743-1522  
*german.nunez@ttuhsc.edu*

### **A.- EDUCATION**

Doctor of Philosophy (Ph.D.), Texas A & M University (1978)  
Dissertation: *The influence of hyperbaric oxygen therapy on the perfusion of tissues.*  
Master of Science (M.Sc.), West Virginia University (1974)  
Bachelor of Science in Industrial Engineering, West Virginia University (1973)  
*Other post-graduate work:* Twenty four (24) credits in History of Science  
West Virginia University. (1985-1987)

### **B.1 ACADEMIC EXPERIENCE (Summary)**

#### **Administrative**

Vice President – International and Multicultural Affairs (2008 – Present)  
Director – Center for International and Multicultural Affairs (2008 - Present)  
**Texas Tech University Health Sciences Center**

Vice President – Diversity and Multicultural Affairs (2004 – 2007)  
**Texas Tech University Health Sciences Center**

Vice Provost – Diversity and Multicultural Affairs  
Director – Center for Diversity and Multicultural Affairs  
**Oregon Health Science University (2000 – 2004)**

Director – Minority Engineering Program  
**University of Colorado at Boulder (1996 – 2000)**

#### **Faculty**

##### ***College of Medicine***

Clinical Professor – Family and Community Medicine  
Professor – Physiology and Molecular Biophysics  
**Texas Tech University Health Sciences Center (2004 – Present)**

Research Assistant Professor – Department of Neurosurgery  
**West Virginia University** (1985 – 1988)  
***College of Engineering***

Professor – Biomedical Engineering  
**OGI, Oregon Health Sciences University** (2002 – 2004)

Professor (Attendant) – Aerospace Engineering Sciences  
**University of Colorado at Boulder** (1996 – 2000)

Associate Professor – Industrial and Systems Engineering  
**Florida International University** (1988 – 1996)

Assistant Professor – Industrial Engineering  
**West Virginia University** (1984 – 1988)

***College of Business***

Visiting Faculty – MBA Program  
Professor of Quantitative Analysis  
**Instituto de Estudios Superiores de Administracion (IESA)**  
Caracas, Venezuela (January – December 1979)

**University Service (Selected)**

***Texas Tech University System***

- Chancellor’s Taskforce on Hispanic Enrollment (2007)
- Chancellor’s Taskforce on African American Enrollment (2007)
- Search and Screen Advisory Committee to the Board of Regents  
Search: Chancellor of the Texas Tech University System (2006)

***Texas Tech University Health Sciences Center***

- Admissions Committee of the School of Medicine (2004 – Present)
- Admissions Committee of the School of Nursing (2005 – Present)
- Undergraduate Admissions Taskforce, School of Nursing (2006-07)
- Head Response Team to Office for Civil Rights (OCR) (2005 - 2006)

***Oregon Health Sciences University***

- Admissions Committee of the School of Medicine (2000 – 2004)
- Admissions Committee of the Physicians Assistant Program (2003 -2004)
- Search and Screen Committee
  - Dean of the School of Medicine
  - Director of Affirmative Action
  - Director of Interpreter Services

### ***University of Colorado at Boulder***

- Member of the selection panel for the *President's Leadership Class*. Student Leadership Institute, University of Colorado at Boulder. April 1998 and April 1999

### ***Florida International University***

- Member of the **University Faculty Senate** (elected by the faculty of the College of Engineering) 1994 – 1995
- *Tau Beta Pi* Faculty Advisor, 1991 – 1996
- Engineering Management Dean's Task Force, 1994
- University ADA Task Force, 1992
- University ADA Compliance Committee
- Disabled Student and Employee Subcommittee. University Affirmative Action Committee
- Promotion and Tenure Committee of the College of Engineering, representing the Department of Industrial and Systems Engineering, 1989
- Chair and member of Faculty Search and Screen Committee (Numerous between 1988 – 1996)
- Provost's Convocation Committee, 1989
- Library Committee, 1988 -1992
- EIT Improvement Committee, 1988
- Consultant to the Office of Affirmative Action and Equal Employment Opportunities. Americans with Disabilities Act (ADA) implementation, and specific cases of "reasonable accommodations" under the ADA.

### ***West Virginia University***

- Search and Screen Committee (Various between 1984 – 1988)
- Chair, Exploratory Committee on Engineering Management Program
- Chair, Communications Task Force, College of Engineering (1986)
- *Tau Beta Pi* - Chairperson, Advisory Board, 1986- 1987
- Undergraduate Programs Committee. 1994 - 19995

## **PROFESSIONAL SERVICE (Selected)**

### ***National Science Foundation (NSF)***

- Member of the Congressional Mandated *Committee for Equal Opportunities in Science and Engineering* (CEOSE) – Three years appointment (2005- 2008)

- Co-Chair and editor, COSE Subcommittee for Congress Biennial Report
- *Advisory Committee of the Office for International Science and Engineering* (OISE). Appointed in February 2006; Liaison of the CEOSE. – Three year appointment (2006 – 2009)
- Member of the *Committee of Visitors* (COV) for *Information Research Technology* (IRT)
- Site Visits – National Science Foundation (NSF)
  - ADVANCE Institutional Transformation project. Case Western Reserve University (2006)
  - ADVANCE Institutional Transformation project. University of Alabama, Birmingham (2006)
  - Information Technology Research (ITR) – Building the Tree of Life ... Computational Phylogenics. University of New Mexico. Site: University of California at San Diego (2006)
  - CELEST, Science of Learning Centers (SLC) Boston University. (2006)
  - ADVANCE Institutional Transformation project. CU-LEAP Program. University of Colorado at Boulder (2004)
  - ITR/SI: Societal Scale Information Systems: Technologies, Design and Applications. University of California, Berkeley. (2004)
- Invited member to National Science Foundation (NSF) review panels
  - Institutional Transformation (2008)
  - Graduate Research Fellowship Program (NSF GRFP) 2007
  - Graduate Teaching Fellows in K-12 Education (GK-12) program (August 2005)
  - National Ecological Observatory Network (NEON) –Division of Biological Infrastructure. (2005)
  - Graduate Research Fellowship Program (NSF GRFP) 2005,
  - Biocomplexity in the Environment: Integrated Research in Environmental Systems (March 2004)
  - Instrument Development for Biological Research (January 2004)
  - Science and Technology Centers (Sept. 2003)
  - Division of Design and Manufacturing. (1991)

***Argonne National Laboratory (Department of Energy)***

- Special Term Appointee (Consultant) under Dr. Margaret E. M. Tolbert Director - Division of Educational Programs  
August 1996 to 1998

- Faculty Research Participation Program (FRP)  
Summer 1997 (July)  
Summer 1996 (May- August)

### ***Professional Societies***

- Editorial Board, *IEEE Transactions in Engineering Management*. (1985 – 1996)
- Chair/Director, Florida Chapter, *IEEE Society of Engineering Management* 1991 - 1995
- President-Elect, *Institute of Industrial Engineers (IEE)*, Monongalia Chapter (W. Va.), 1985

### ***Other***

- Member of the Tobacco Disparities Planning Project (State of Oregon – Department of Human Services) 2003
- Committee on Tobacco Prevention in Minority Communities (State of Oregon – Department of Human Services.) 2002 -2003
- Elected Member of the Board of Directors of the Hispanic Metropolitan Chamber of Commerce, Portland, Oregon. 2002 - 2004
- Benson Partnership Committee, Portland Oregon. 2003
- Member of the Oregon State-wide board of AHEC (2000 – 2004)
- Member of the Board.- *MESA*, Oregon. (2000 – 2003)
- National Visiting Committee (NVC) for the Florida Collaborative for Excellence in Teacher Preparation (FCETP), a project funded by the National Science Foundation (NSF). Florida State University, Tallahassee, FL August 1999
- *Minority Engineering Program Advisory Council (MEPAC)*, School of Engineering, **University of New Mexico**. (1997) Member Inaugural Committee.
- Faculty Advisor of the Florida Theta Chapter of *Tau Beta Pi*, Engineering Honor Society 1989 - 1995
- Evaluation Committee. National Hispanic Scholarship Fund (NHSF), 1988, 1989, 1990

### **Presentations, Lectures, Courses, Speeches, and Professional Appearances (Selected)**

- *Capital Defense in our Multicultural Society (Transcultural Lawyering & Capital Defense)*. Punishment Phase of a Capital Trial. Capital Defense. **Center for American and International Law**. Plano, TX. March 23-24, 2007 (Lecture)

- *Building an Effective Pipeline into Health Care Professions*. 2007 **Health Workforce Diversity Conference**. Lubbock, Texas, on March 6, 2007. (Conference)
- *A Report to Congress: Catalyzing Action to Broaden Science, Technology Engineering and Math Participation (NSF)*. **American Association for the Advancement of Science (AAAS)**. 2007 Annual Meeting. San Francisco, CA. (Conference)
- *Hispanics and Disabilities: A Cultural Perspective*. Invited presentation. National Center on Birth Defects and Developmental Disabilities. **Centers for Disease Control and Prevention (CDC)**, Atlanta, GA September 19<sup>th</sup>, 2002
- *Medicine, Culture, and Migration*. Invited Lectureship at **The John Sloan Dickey Center for International Understanding** and the School of Language. Dartmouth College, NH. (Lecture, 2001)
- *Grand Rounds - Medicine*
  - Texas Tech University Health Sciences Center – School of Medicine
    - Oncology: *Culture and the experience of pain* (2006)
    - Pediatrics: *The impact of culture in the practice of pediatrics* (2007)
  - Oregon Health Sciences University – School of Medicine
    - Pediatrics: *Culture and the practice of pediatrics* (2005)
  - North Pacific Pediatric Society – Portland, Oregon
    - *Cultural Issues in Pediatrics* (2003) Conference
- *Training rounds for interns and fellows: Culture and Medicine*
  - Texas Tech University Health Sciences Center
    - Internal Medicine (2006)
    - Family and Community Medicine (2005, 2006)
- *Transcultural Nursing*. Invited lecture by Prof. Marie Napolitano. University of Portland (2000, 2001) Lecture
- *Diversity and Health Sciences*. Physician Assistant Program. Oregon Health and Science University (2000, 2001) Lecture
- *The Value of a Diverse Workforce*. Tenth Annual Symposium for Undergraduates in Science, Engineering and Mathematics. Argonne National Laboratory. November 5, 1999. Opening Plenary Keynote

- Hispanics: Origins, Myths and Facts. Diversity Lecture Series. Oregon Health and Science University (OHSU) October 13<sup>th</sup> 2003
- *Ergonomics, Productivity, and Loss Control. II Risk Control Seminar. **Petróleos de Venezuela (PDVSA)**.* Puerto la Cruz, Venezuela, November 1997. Keynote conference
- The American with Disabilities Act (ADA) seminar. *Business Coalition for American with Disabilities.* Miami, FL February 19, 1993
- Chair, Section on International Technology Transfer, Portland International Conference on Engineering Technology (PICMET), October 30, 1991

### **National and State Leadership Summits**

- *National Hispanic Leadership Summit.* U.S. Senate. By invitation of U.S. Senator Kay Bailey Hutchinson (TX). Washington, D.C. March 2007
- *National Hispanic Leadership Summit.* U.S. Senate. By invitation of U.S. Senator Kay Bailey Hutchinson (TX) and U.S. Representative Randy Neubeauer (TX). Washington, D.C. March 2005
- The Leadership Summit: *Shaping Oregon's Economic Future.* December 9, 2002. By invitation of U.S. Senator Ron Wyden, U.S. Senator Gordon Smith, and Governor State of Oregon Ted Kulongosky
- *Forum of Minority Business Leaders.* Aug 2002. By invitation of Portland, Oregon, City Commissioner Jim Francescony and the Portland Development Commission.

### **• B.2 ACADEMIC EXPERIENCE**

#### **UNIVERSITY OF COLORADO - BOULDER (Boulder, Colorado 80309)**

- Professor (Atendant Rank) of Aerospace Engineering

**Courses taught:** GEEN 1510 and GEEN 1520 Self Management and Leadership.

**Distance Learning:** Engineering Management

#### **FLORIDA INTERNATIONAL UNIVERSITY (Miami, Florida 33199)**

- Associate Professor of Industrial and Systems Engineering  
College of Engineering and Applied Sciences  
Department of Industrial and Systems Engineering

August 1988 - May 1996

**Courses taught (Undergraduate):** Engineering Economy, Industrial Engineering Systems in the Office, Work Design and Evaluation. Human Factors Engineering. Bioengineering. Safety Engineering. Industrial Hygiene, Industrial Marketing, Project Management.

**Courses taught (Graduate):** Engineering Management, Advanced Work Design, Advanced Ergonomics, Industrial Ergonomics.

**Distance Learning (FEEDS):** Engineering Management.  
Courses prepared for distance learning: Engineering Management, TQM, Management of Innovation, Human Factors and Ergonomics.

### **WEST VIRGINIA UNIVERSITY (Morgantown, West Virginia 26506)**

- College of Engineering  
Assistant Professor  
Department of Industrial Engineering  
January 1984 - May 1988
- College of Medicine  
Research Assistant Professor  
Department of Neurosurgery  
August 1985 - May 1988

**Courses taught (Undergraduate):** Engineering Economy, Industrial Marketing. Work Analysis. Human Factors Engineering. Bioengineering (Team Teach)

**Courses taught (Graduate):** Engineering Management, Management of Innovation and Creativity, Advanced Work Analysis.

### **INSTITUTO DE ESTUDIOS SUPERIORES DE ADMINISTRACION (IESA)**

- Visiting Faculty, MBA Program
- Consultant - Center for Human Resources  
February 1979 - December 1979
- Lecturer - Executive Development Program  
May 1974 - December 1983

#### **Summary of Activities at IESA:**

- During the year 1979 served as Visiting Faculty in the MBA program teaching Quantitative Methods. In addition, served as a **Consultant to the Center of Human Resources** in various projects and services



rendered to the petroleum industry, health care organizations, and government institutions.

- From 1979 to 1983 participated as **Faculty in Executive Development Programs such as:** Production Planning and Control, Management of Technology, Human Resources and Personnel Management, Quality Control, Safety Management.
- In 1974 and 1975 developed and taught **Executive Development Courses** in Safety Management.

### **ARGONNE NATIONAL LABORATORY (DOE)**

- Served as a consultant to the Division of Educational Programs (DEP) in the area of higher education.
- Advised and assisted DEP staff in the recruitment of students for the SIRT and SERT programs.
- Advised and assisted DEP staff in the recruitment of underrepresented minority students and faculty for the various programs available in ANL.
- Assisted the division director in areas pertinent to international programs.
- Advised and assisted DEP staff in the writing of proposals to various funding agencies including NSF and DOE.
- Selected student applicants from underrepresented minorities to participate in the 1996 Summer Interdisciplinary Research Training Program (SIRT).
- Participated in the 1996 and 1997 SIRT program as a "Faculty Mentor"
- Designed and taught the modules on "Product Design and Ergonomics" of the SIRT program (64 hrs).
- Assisted in the general coordination and in the everyday activities of the SIRT program.
- Conducted research on the participation of minorities in engineering careers.
- Co-authored with division director the report Participation of Hispanics in Major DEP Programs.
- Wrote proposal to NSF for continuous funding of the SIRT program.

## **B.2.- Industry & Business Experience**

### **GENERAL ELECTRIC COMPANY**

- Andean Countries Business Division (ANCBBD)  
Manager -Organization and Manpower Operations  
May 1981 - April 1983

- Strategic Planning Division -GEVENSA  
Manager - Program Development  
January 1980 - April 1981

### **Summary of Activities at General Electric:**

- As the Manager of Organization and Manpower Operations for one of the largest international divisions, responsibilities included:
- Development of personnel policies for 7 SBU's in 5 different countries and over 5,000 employees.
- Annual Manpower Review for the entire region. This function included working with the SBU's Presidents and General Managers; preparing the career development plan for all personnel above department and division manager; preparing the training programs for all personnel above department and organization chart for each SBU in accordance with the 5 year personnel development plan.
- As a member of the Division Executive Board, participated in planning of the budget, financial analysis of business activities, evaluation of projects and feasibility studies for new business ventures.
- As Manager - Program Development responsibilities included: Assisting in the SBU yearly strategic Plan. Development of productivity indicators. Development of strategies to increase productivity and sales.

### **B.3.- Consulting Experience**

Since 1975, Dr. Germán R. Núñez G. has served as a **management consultant** to numerous industries, businesses and organizations including: manufacturing, health care, insurance, and agricultural businesses. In addition he has also served as a consultant to insurance companies and legal firms as a **forensic expert witness** in cases related to personal injuries, product design, product liability and workmen's compensation.

### **C.- AWARDS and HONORS**

#### **C.1 Awards**

- Fla. State University System *Teaching Incentive Program* (TIP) Award, 1994. (Award presented to the outstanding professors in the Florida University System included a \$ 5,000.00 salary increase)
- *Honorary Professor of the Year* - Industrial Engineering Class of 1993 - FIU
- Certificate of Appreciation for *Outstanding Services* - Office of Disability Services and the Advocates for Disability Awareness. F.I.U. - '93
- *Outstanding Faculty Award for Services to Students with Disabilities.* '92

- *Teaching Award* - FIU, Industrial Engineering Class of 1992
- *Award of Excellence* - Chapter Development. Institute of Industrial Engineers (IE) '85
- *Productive Systems Design Award*. West Virginia University. 1983
- *Full-Ride Doctoral Fellowship*, FGMA (1977 - 1978)
- *Honorary Citizenship of Morgantown*, West Virginia (1973)

## **C.2 Honor Societies**

- Tau Beta Pi (All Engineering Honor Society)
- Alpha Pi Mu (Industrial Engineering Honor Society)
- Sigma Xi (Scientific Research Honor Society)
- Phi Alpha Theta (History Honor Society)
- Phi Delta Kappa (Education Honor Society)

## **C.3 Biographical Citations**

- Who's Who of American Inventors.
- Who's Who Among Hispanic Americans.
- The International Who's Who of Intellectuals.
- American Men and Women of Science.

## **C.4 Academy and Society Fellowship**

- Societe Internationale D'Histoire de la Medicine - International Fellow
- Sociedad Venezolana de Historia de la Medicina - National Fellow
- Societe Francaise D'Histoire de la Medicine - International Fellow
- New York Academy of Sciences - Member
- American Society of Patent Holders - Charter Member

## **C.5 Distinctions**

- Interviewed by CNN on topic related to disabilities in the Hispanic community. Interview first aired in *CNN-Español* as part of the program ***Consulta Médica*** (Medical Advances) on October 4, 2002
- Selected and invited by the **United Nations (UNESCO)** to participate in their program of technology transfer *TALVEN XXI* with interaction, seminars and conferences in Venezuela 1997

- President, Monongalia Chapter, Institute of Industrial Engineers (IIE), 1985 - 1986
- President-Elect, Monongalia Chapter, Institute of Industrial Engineers, 1984 – 1985
- Nominated for Ralph Teetor Engineering Education Excellence Award - ASE, 1985
- Industrial Engineering Advisory Committee, West Virginia University, 1981 – 1983
- Invited Scientist to the **NATO-Advanced Scientific Institute** *Principles of Engineering in Cardiovascular Research*, Urbino, Italy, 1977
- Research grant reviewer (N-DDCT-SAL-17). *Consejo Nacional de Investigaciones Científicas CONICIT*. 1977
- Presidential Appointment to COVENIN (Committee for National Standards) Hygiene and Safety. Personal Protective Equipment, Caracas, Venezuela, 1975 – 1976
- Presidential Appointment to COVENIN (Committee for National Standards) Hygiene and Safety. Colors and Symbols, Caracas, Venezuela, 1975 - 1976
- Organizing Committee of the UNESCO sponsored *Seminario Sobre Técnicas del Curriculum*. Ministry of Education, Venezuela, 1974

**D. Nationality:** U.S.A.

**E. Languages:** English, Italian, and Spanish (all fluent)

## **APPENDIX**

### **AP.1.- PATENTS**

*Ergonomic O.R Instrument Table* (1990) - U.S. Patent No. 4927214.  
*Reaction Time Test & Analysis* - Software Copyrighted, 1991; and *PACE*, 1997

### **AP.2.- PUBLICATIONS**

#### ***Books and Book Chapters***

1 **Germán R. Núñez G.** (2009) "Culture and Disabilities", in *Disability and Public Health*. Eds. Drum, CE, Krahn, GL and Bersani, H., pp 65-78. American Public Health Association, Washington, DC. (ISBN: 978-0-875553-191-5)  
[Chapter 5 – Culture and Disabilities](#)

#### ***Electronic***

1 Jones, B., Trotter, D., Evans, L., Zumaya, M., **Núñez, G.**, Ragain, M., (2009). The Continuity Clinic Podcast Series of the Texas Tech MedCast: Delgado Module.  
MedEdPORTAL: <http://services.aamc.org/30/mededportal/servlet/s/segment/mededportal/?subid=1733>

#### ***Journals***

45 **Núñez, Germán R.** (2003) Culture, demographics, and critical care issues: an overview. *Crit Care Clin* 19:619-639.  
[Culture, Demographics, and Critical Care Issues](#)

44 Morgenthaler, George W.; **Núñez, Germán R.**; Botello, Aaron; Soto, Jose; Shrairman, Ruth and Landau, Alexander (1998) "Investigation of PACE Software and Verifax's Impairoscope Device for Quantitatively Measuring the Effects of Stress", in: El-Genk, Mohamed S. Eds. *Space Technology and Applications International Forum*, 1998, Part Two, Albuquerque, NM, January 1998, Vol 420, pp. 609-615, *American Institute of Physics, AIP*. doi:10.1063/1.54853.  
<http://link.aip.org/link/?APCPCS/420/609/1>

43 **Núñez G., Germán R.** (1997) "Así se Originaron las Prótesis Vasculares" *Gerencia*, Vol. 14, Septiembre 1997, p. 64

42 **Núñez, G.**, Marguilies-Eisner, T., Manheimer, P., and Mac Neil-Stinson, B., (1996) "The Impact of the 'Americans with Disabilities Act' on Engineering Education, *IEEE Transactions in Education*, Volume 39, Number 2, pp. 251-256. <http://ieeexplore.ieee.org/search/wrapper.jsp?arnumber=502072>

41 Shoephoerster, R.T, Viscarra, H., **Núñez, G.**, Kapadvanjwala., M. and Dewanjee, M.K., (1994) "Flow-induced Platelet Deposition in Pulsatile Flow Conditions as a Function of Flow Geometry and Resulting Dynamics of Flow" (Abstract) in: *Scientific Conference on Atherosclerosis, Thrombosis, and Proliferation*.

40 Shoephoerster, R.T, Oynes, F, **Núñez, G.**, Kapadvanjwala., M. and Dewanjee, M.K., (1993) "Effects of Local Geometry and Fluid Dynamics on Regional Platelet Deposition on Artificial Surfaces" *Arterioscler. Thromb.* 13: 1806- 1813. <http://atvb.ahajournals.org/cgi/reprint/13/12/1806>

39 Shoephoerster, R.T, Oynes, F, **Núñez, G.** Park, D.C., Ramirez, J.A., and Dewanjee, M.K., (1993) "Applications of Neural Computation to the Prediction of Regional Platelet Deposition and Variations due to Vessel Geometry." in: *Proceedings of the Twelfth Southern Biomedical Conference '93*, pp. 84-86

38 **Núñez, Germán** (1992) "Management of Cumulative Trauma Disorders in the Apparel Industry" in: *Proceedings of Workshop on Apparel Manufacturing Improvement* (Sponsored by National Science Foundation) pp. 25 -32. *FIU Press*

37 Genaidy, Ash, and **Núñez, Germán** (1992) "Ergonomic Risk Assessment: Preliminary Guidelines for Analysis of Repetitions and Forces" in: *Proceedings of Workshop on Apparel Manufacturing Improvement* (Sponsored by National Science Foundation) pp 1 -24. *FIU Press*.

36 Schoephoerster, R.T., Oynes, F., **Nunez, G.**, Kapadvanjwala, M., and Dewanjee, M.K. (1992) "Differences in regional platelet deposition due to variations in geometry and resulting flow phenomena." *Proceedings of the AAMI/NHLBI Cardiovascular Science and Technology Conference*, Bethesda, Maryland, December 12-14, 1992, p. 264.

35 Schoephoerster, R.T., Oynes, F., **Nunez, G.**, Kapadvanjwala, M., and Dewanjee, M.K. (1992) "Influence of flow rate on platelet deposition in an in vitro model stenosis using In-111 labeled platelets." *Proceedings of the AAMI/NHLBI Cardiovascular Science and Technology Conference*, Bethesda, Maryland, December 12-14, 1992, p. 260.

34 **Núñez, Germán**, and Núñez, Germán R., Jr. (1991) "Cumulative Trauma Disorders as a Result of Poor Ergonomic Design," in: *Technology Management: The New International Language*. Eds. Kocaoglu, Dundar and Niwa, Kiyoshi, pp 108-110. IEEE, Portland, Or.

<http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Ftp%3D%26arnumber%3D183574%26isnumber%3D4720&authDecision=-203>

33 **Núñez, Germán** (1992) "A Computer Program to Test Reaction Time, Fatigue, Stress, Target Detection, and a Possible Tool for the Non-Invasive Diagnosis of Carpal Tunnel Syndrome (CTS)" in: *Masters of Innovation IV*, p. 128 Zenith Data Systems, Chicago.

32 **Núñez, Germán** (1991) "Interdisciplinary Senior Project Groups: Developing Creative and Innovative Talent", *Australasian Association for Engineering Education*, Vol. 3, No. 1.

31 Lu, De-Fu, Stanley, Charles F., **Núñez, Germán** and Frazer, David (1991) "A Mathematical Description of Pressures in Alveolar Pores of Kohn", *Journal of Biomechanical Engineering*. Vol. 113, February 1991, pp. 104- 107  
<http://www.ncbi.nlm.nih.gov/pubmed/2020168>

30 **Núñez, Germán** (1990), "Terapia con Aire Comprimido Europa Durante el Siglo XIX" *Bol Acad Cien. Fis. Mat. y Nat.*, Vol. L., Nos. 159-160, pp 71-8 1. (Publicado también por: *SVH Med.* Vol. 39, No. 58, pp. 65 -78)

29 **Núñez, Germán** (1990), "Bringing Humanities Into the Engineering Classroom" *Hispanic Engineer*, Winter 1990, p. 4

28 **Núñez, Germán** (1990), "Cumulative Trauma Disorders in Today's Industry". in: *Proceedings of the Inter American Engineering Conference: Computers in Today's Engineering* Eds: Schmidt, P.E., and Campo, A., Miami, FL. pp. 50-52

27 **Núñez, Germán** (1990), "Andreas Roland Grüntzig: 1939-1988" *Bol. SVH Med.* Vol. 39, No. 57, pp. 65-69

26 **Núñez, Germán** (1990), "Terapia con Aire Comprimido Europa Durante el Siglo XIX" *Bol. SVH Med.* Vol. 39, No. 58, pp.65-78

25 **Núñez, G.**, Ray, G., y Stanley, C.F (1990), "In-Vitro Testing of a New Central Flow Catheter for Pulmonary Valvuloplasty". *Proceedings of the 12th Annual International Conference - IEEE Engineering in Medicine and Biology Society*. Ed.: Pedersen, P.D. and Onaral, B., Part 2/5, pp. 539-560  
<http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel4%2F499%2F4080%2F00691205.pdf&authDecision=-203>

24 **Núñez, Germán** (1990), "Managing the Foreign Service Employee." *Journal of Applied Management*, Vol. 55, No. 3, pp. 25-29

23 **Núñez, Germán** (1990), "Managing the Foreign Service Employee." (Abstract), en: *Management of Technology II*, Eds. Khalil, T.M., and Bayraktar, B.A., p. 1309

22 **Núñez, G.** y Stanley, C.F. (1990), "Interferometría Holográfica Como Método Para Medir Vibraciones en la Superficie Pulmonar." *Bol Acad Cien. Fis. Mat. y Nat.* Vol. XLX, Nos. 156-157

21 **Núñez, Germán**, y Pokl, J. Scott (1989), "LASER: Principios y Aplicaciones en las Ciencias Médicas." *Bol. Acad. Cien. Fis. Mat. y Nat.* Vol. XLIX, Nos. 155-156, pp. 1995

20 Patak, M., Stanley, C.F., and **Núñez, G.** (1989) "Applications of Time-Average Holographic Interferometry to Analyze Vibration Patterns in Biological Tissue." *Exp. Techniques*, pp. 30-31., April 1989.  
<http://www3.interscience.wiley.com/journal/120007205/abstract>

19 Stanley, C.F., and **Núñez, G.**, Pathak, M., and Ashari, A (1989), "Analysis of Time: Average Holographic Interferometry Applied to Excised Animal Lungs." *Advances in Bioengineering*. Ed. J. Miller, ASME, New York. pp. 127-13

18 Stanley, C.F., **Núñez, G.**, and Pathak, M.A. (1989), "Holographic Interferometry Applied to Acoustic Excited Lungs.", in: *Proceedings of the 35th International instrumentation Symposium*, pp. 423-430

17 Stanley, C.F., Dey, R., Dalaz, N., Parlovic, A., y **Núñez, G.** (1989), "Biological Effects of Inhaling Fresh Versus Stale Coal Mine Dust." *5th Miami International Symposium on Multiphased Transport and Particulate Phenomena* p. 99 (abstract)

16 Stanley, C., Pathak, M., **Núñez, G.**, Sneckenberger, J., y Whitmoyer, T.T., (1988), "Techniques to Apply Holographic Interferometry to Excised Animal Lungs." *Proceedings of the 14th Northeast Bioengineering Conference*, N.H., pp. 82-83.  
<http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel2%2F772%2F733%2F00019349.pdf%3Farnumber%3D19349&authDecision=-203>

15 **Núñez, G.**, Kaufman, H., y Stanley, C. (1988), "Designing Better Surgical Instruments." *IEEE Engineering in Medicine & Biology. 10th International Conference*, New Orleans, La. 1988, Vol. 10, pp. 661-662  
<http://ieeexplore.ieee.org/Xplore/login.jsp?url=http%3A%2F%2Fieeexplore.ieee.org%2Fiel2%2F727%2F3075%2F00094856.pdf%3Farnumber%3D94856&authDecision=-203>

14 **Núñez, Germán** (1988), ROBOT: The Wrong Name for the Right Technology." *Engineering Management International*, Vol. 5, No. 6, pp. 97-100



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9 **Núñez, Germán** (1987), "Management of the Foreign Service Employee: A Case of Double Standard?" *Proceeding of the IIE Conference in Management and Technology, 1987*, pp. 339-340

8 **Núñez, G.**, Stanley, C.F., y Abnash, J. (1987), "The Use of Thermocouples for Determining Temperature Profile Around Laser Fiber Probes." *IEEE, 13th Northeast Bioengineering Conference (Abstract)*

7 Stanley, C.F., y **Núñez, G.** (1987), "Design and Testing of a Non-Obstructing Heart Catheter." *Proceedings of the SEM Conference in Experimental Mechanics*, 1986, pp.793-794

6 **Núñez, Germán** (1986), "Des Origines de la Prosthèses Vasculaire." *Historie Des Science Medicales (Paris)*, TOME XX, No. 2, p. 131-136. ISSN 0440-8888

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4 **Núñez, Germán** (1986), "Paul Bert (1833-1886)." *Bol. Ac. Cien. Fis. Mat. Nat.*, TOMOXL VI, Nos. 143-144, p. 39-43

3 **Núñez, Germán** (1985), "Auge y Caída de la Real Academia de Ciencias de Paris (1666-1793)." *Bol. Ac. Cien. Fis. Mat. Nat.* TOMO XLV, Nos. 139-140. p. 67-82

2 **Núñez, Germán** (1984), "Paul Bert, Científico y Político." *Bol SVH. Med.* Vol. 33, No. 41

1 **Núñez, Germán** (1979), "The Influence Of Hyperbaric Oxygen Therapy on the Perfusion of Tissues." Doctoral Dissertation, Texas A& M University, 1978. In: Dissertation Abstracts, p. B-479

### **AP.3.- TALKS AND PRESENTATIONS**

Since 1974, Dr. Núñez has been invited to deliver over 500 professional lectures, talks and presentations in the U.S., Europe and Latin America. Engagements have included conferences, congresses, symposia, and presentations to: The Academy of Science, business groups, chambers of commerce, professional groups and societies, invited lectures at Universities, television interviews and educational programs. (*vide supra*: pp 5 -6)

### **AP.4.- BOOK REVIEW AND EDITORIAL WORK**

- *Handbook of Technology Management* Kocaoglu, Dundar (Editor), John Wiley & Sons, 1986.

### **AP.5.- TECHNICAL REPORTS**

- Participation of Hispanics in Major DEP Programs. (1998) Argonne National Laboratory, Department of Energy (DOE), Division of Educational Programs. (With Margaret E. M. Tolbert)
- Distribution Routing and Resources Management for WVU Hospital. Center of Entrepreneurial Studies and Development. TR 00587, 1987
- Pricing Strategies for the Hospital Services. Center of Entrepreneurial Studies and Development. TR01285, 1985
- Organization Development for Biomedical Communications. Center of Entrepreneurial Studies and Development, TR 0 1 084, 1984

### **AP.6 Funded Research Projects**

- Bridging the Gap: A Patient-Centered Curriculum for Cultural Competence. NIH Heart Lung Blood Institute: K07. NIH \$424, 030. 2006-2010. Co-PI w/ Dr. Lynn S. Bickley.
- Cancer Research Experiences for Underrepresented Minorities: A Summer Program. Cancer Center (P30) CURE Supplement. OCC-CA69533. NIH. \$333,831. 06/01 to 05/05. CO-PI w/ Dr. Grover C. Bagby (PI)

- Health Professions Partnership Initiatives (HPPI), project extension. Grant # 028705. \$58,300. 06/2001 to 12/2002. CO-PI w/ Dr. John Saultz (PI)
- MEP Summer Bridge Program 1999. Lockheed Martin Co. \$ 18,000. (PI)
- Exploring Engineering Institute (Summer 1998). Department of Energy (\$ 5,000) and StorageTek (\$ 5,000)
- Extraction of Tides and Planetary Waves from Satellite Observations. NASA, (NRA 97-OSS08), \$ 144,563 (3 years, including \$15,000 for Educational Outreach Supplement through the Minority Engineering program) Funded (1998-2000) CO-PI (Ed.Outreach). with Scott Palo (PI)
- Colorado Coalition for the Advancement of Minorities COAMP. National Science Foundation. \$5,000,000 (1 Million per year). Funded for the period 1996 - 2000. Co PI, with Omnia ElHakim (PI)
- Minority Engineering Program (MEP) Retention Activities (SBP, AEW's, SRP). COAMP/NSF. \$ 115,000 (Funded 1997-1998) Principal Investigator.
- Minority Engineering Program (MEP) Retention Activities (SBP, AEW's, SRP). COAMP/NSF. \$ 139,410 (Funded 1996-1997) Principal Investigator.
- Minority Engineering Program (MEP) Retention Activities. ARCO Foundation. \$30,000 (Funded, 1996-1997) Principal Investigator
- Fluid Dynamics and Platelet Deposition in a Model Artificial Artery". American Heart Association. \$ 47,901 per yr. (Funded, 1995 - 1996) Collaborator with Richard Schoephoerster (PI)
- Influence of Flow Dynamics on Thrombogenesis. NIH Area Grant # RIS HL 4644401. \$ 106,420. (Funded, 1992 - 1994) Collaborator with Richard Schoephoerster (PI)
- A Workshop on Apparel Manufacturing Improvement, National Science Foundation (NSF), \$13,000. (Funded, 1992) Co- PI, With Chen, C. and Racine, R.
- Carpal Tunnel Syndrome in South Florida's Industry. Florida International University. \$10,887.67. (Funded, 1989) PI
- Design of a Control Flow Catheter for Pulmonary Valvuloplasty, Florida High Technology Council, \$ 19,855 (Funded, 1989-1990) PI

- Florida Action For Minorities in Engineering. Co-participant 1988 - 1989 \$42,450 & \$ 50,000. (Funded - Dade County School Board) With Gustavo Roig (PI)
- The Effects of Brain Injuries in D.LC, Co-Investigator, (~U Senate Grant \$18,000. 1987-1988 (Funded). Collaborator. With Howard Kaufman. (PI)
- Ergonomic Design and Testing of Instrumentation for Neurosurgery. Grant from WW School of Medicine \$27,000. 1986- 1988 PI
- Determination of Scheduling and Routing of In-Transit Material Within Basic Sciences Building Funded by WVU VP-Health Sciences \$25,700.1987.PI
- Effects of Laser Radiation on Atherosclerotic Plaques. Co-Investigator, WW Dept. of Cardiology, \$300,000. (Funding Source: Private Donation). Collaborator. With Abnash Jain (PI).
- Marketing Strategies for the Marginal "Barrios." Funded by the International Committee on the Management of Population Programmes. Malaysia. \$20,000. 1979 PI

#### **A.7.- THESIS, MS Projects, and DOCTORAL DISSERTATIONS**

- *Dealing with Corporate Culture and Organizational Structures when Merging Two Venezuelan Organizations* (Carlos Alejandro Alba), ME Engineering Management, Member 1997, University of Colorado - Boulder.
- *Drawbacks Using MS PROJECT in International Construction Projects - The Case of Venezuela* (Roberto Katz) ME Engineering Management, Member 1997, University of Colorado - Boulder.
- *Design of an Inventory Control System for Hospital Use* (Camille Rivera), MSE. Member 1995, FIU.
- *Simulation & Economic Model for Coal Generation* (Mike Cuba), MSIE. Member 1995 FIU.
- *Anthropometry of the Colombian Population* (Orlando Corredor), MSE. Member 1994, FIU.
- *Dynamic Imaging of the Left Ventricle Under Various Conditions of Load* (Eric Gonzalez) MSME. Member 1993, FIU
- *Kinematics Aspects of Manual Lifting* (Narendra K. Kota), MSME. Member 1990, FIU.

- *The Evaluation and Production of Performance Army ROTC Cadets at Advanced Camp* (Capt. Gerhard Hartig), MSE, Chairman, 1986, WVU
- *Design of a Distributed Systems for Hospital Resources Management*, (Mary Kay Clark) MSE, Member, 1987, WVU
- *Decision Making Models for Health Care Delivery System*, (Zack J. George), Ph.D., Member, 1987, WVU
- *Forecasting of Incentive Plans Failure*. (Walid Finan), MSE, Member, 1986, WVU
- *A Study of the Revitalization of Incentive Plans*, (Carol Lee Waltzer), MSE, Member 1985, WVU

#### **AP.8.- TEACHING POSTS ABROAD**

- Lecturer. Instituto Tecnológico Antonio Jose de Sucre Caracas, Venezuela 1974- 1976. **Courses Taught:** Ergonomics I, Ergonomics II, Technical Drawing and Design, History of Technology.
- Lecturer. Instituto Pedagógico de Venezuela Caracas, Venezuela 1974- 1976 **Courses Taught:** Technical Drawings and Design
- Lecturer. Escuela de Comunicaciones del Ejército Caracas, Venezuela 1975. **Courses Taught:** Personnel Management

#### **AP.9.- PROFESSIONAL DEVELOPMENT COURSES (Selected List)**

- OSHA Compliance  
U.S. Department of Labor Occupational Safety and Health Administration, Chicago, 1989
- Manager Development Course  
General Electric Co.  
Caracas, Venezuela, 1982
- Effective Presentation (Instructor's Training)  
General Electric Co.  
Bridgeport, Connecticut, 1982
- Work Simplification and Work Design  
General Electric Co.  
tove, Vermont, 1982

- Human Resources Development Course  
General Electric Co.  
Crotonville, N.Y. 1981
- Manager Modeling Leadership Course  
General Electric Co.  
Caracas, Venezuela, 1981
- Coping With Inflation  
General Electric Co.  
Caracas, Venezuela, 1981
- Management by Objectives (Gerencia por Objetivos)  
Instituto de Estudios Superiores de Administración (IESA)  
Caracas, Venezuela, 1981

#### **AP.10. ART EXHIBITS**

1.-

- Work titles: In collaboration with Prof: George Rivera\*

Visions 1\*

Digital image (1998)

81 cm. x 81 cm.

Visions 2\*

Digital image (1998)

81 cm. x 81 cm.

IN-FINITE-VIS-IONS \*

Digital image (1998)

81 cm. x 81 cm

Exhibit:

*Crisis, Dreams and the Aesthetic Imagination (Crisis, Sueños e Imaginacion Estetica)*

Exhibition Site:

*Museo de Arte Contemporáneo de Valdivia, Chile. (October 1998 to March 1999)*

2.-

- Work titles:

Hombre del Milenio (Man of the Millenium)\*

Digital image (1999)

41 cm. x 41 cm.

Cuatro Micro-chips de Memoria (Four Microchips of Memory)\*

Digital image (1999)

81 cm. x 81 cm.

Cruce Generacional (Cross Generation)\*

Digital image (1999)  
81 cm. x 81 cm.  
Pasado y Presente (Past and Present)\*  
Digital image (1999)  
92 cm. x 107 cm.  
Mundos de San Juan (St. John's Worlds)\*  
Digital image (1999)  
81 cm. x 92 cm.

Glifo Familiar (Family Glifo)\*  
Digital image (1999)  
41 cm. x 61 cm  
\* In collaboration with Prof: George Rivera.

Exhibit: *Millenium*

Exhibition Site: *Museo de Arte de la Universidad de Alicante, España.*  
*(Museum of Fine Arts, Alicante, Spain). From April 26-30, 1999*