

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

- Harris TR, Alverson DC: "Pulmonary Causes for Neonatal Respiratory Distress Other than IRDS: Case Studies" 1992
Fourteenth Annual Pediatric Cardio-Pulmonary Update, Albuquerque, NM.
- Alverson DC, "Health Care in the United States – Are we in a crisis?" 1992
League of Women Voters of Albuquerque/Bernalillo County Albuquerque, NM.
- Alverson DC, "Transfusion in the Neonatal Intensive Care Unit: Efficacy of Blood Replacement Therapy", 1992
Transfusion Medicine Albuquerque, NM.
- Alverson DC, Armenta L, Gibson J, Harris J, Joralemon G: 1992
"Ethics at the Beginning of Life"-Panel.
The Dorothy Turner Memorial Seminar Albuquerque, NM.
- Alverson DC. "Status of Erythropoietin Treatment" 1992
Current Concepts and Controversies in Perinatal Care Albuquerque, NM.
- Alverson DC, "Neonatal (Oxygen) "Deliverance"/Determination of Neonatal Cardiac Output" 1993
Ninth National Meeting, National Association of Neonatal Nurses Orlando, FL.
- Alverson DC, "Trauma to the Trauma Center: How Do We Survive?" 1993
Seventh Annual Trauma Conference Las Cruces, NM.
- Alverson DC, "Cost Effective Approach to the Timing of Neonatal Brain Injury" 1994
California Perinatal Association 1994 Annual Conference Perinatology/Neonatology 2000: The Future is Now! Monterey, CA
- Alverson DC, "Decision-making for Pediatric Transfusions" 1994
Lovelace Child Health Lecture Series Albuquerque, NM
- Alverson DC, "Evolving Roles and Preparation of Advanced Practice Nurses: Collaboration for Success-Panelist representing the Media's Perspective" 1994
Albuquerque, NM

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC, "Media and Violence: A Reporter's View" Fourth Annual Symposium of the Biomedical Ethics Committee "Language, Gender and Violence. Their Influence on Health Care" Albuquerque, NM.	1994
Alverson DC, "Epidemiology of Pediatric Injury in New Mexico" Trauma Update 1994 Albuquerque, NM	1994
Alverson DC, "To Transfuse or Not to Transfuse, That is the Question!" Cardiopulmonary Update 1995, Albuquerque, NM. April 7, 1995	1995
Alverson DC, "Innovations in Neonatology" Concepts and Controversies in Perinatal Care-1995, UNM, Sept 29-30, 1995	1995
Alverson DC, "Men's Health Care", Women's Professional Organization, Public Service Company of New Mexico, Albuquerque, NM November 16, 1995	1995
Alverson DC, "Innovations in Neonatology" Regional IHS Pediatric and Obstetrics Annual Conference, Albuquerque, NM January, 1996	1996
Alverson DC, "New Mexico Health care Crisis? - Rural Health Issues" New Mexico Rural Development Council Conference, Las Vegas, NM, June 1996	1996
Alverson DC, "Respiratory Care Innovations in Neonatology", NMSRC Annual Conference, August, 1996	1996
Alverson DC, "Telemedicine: Virtual Hands Across the Firewalls" Federal Provider Credentialing Conference, Albuquerque, NM, September 1996	1996
Alverson DC, "Telemedicine in Rural New Mexico and Its Role in Perinatal Care", New Mexico Section ACOG Annual Ob/Gyn Update, Santa Fe, NM, February 15, 1997	1997
Alverson DC, Rarno, BW, Rubin Rich, Jadrnak J, Rogers E, "Role of the Media in Educating Patients-A Panel Discussion" AOA Student Symposium, Albuquerque, NM. April 8, 1997	1997
Alverson DC, "Developing a Telemedicine Business Plan", Panelist presenting program development In New Mexico, Tribal Healthcare 2000: Telecommunications and Telemedicine Conference and Trade Show, San Diego, CA, July 15-17, 1997	1997

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC, "Telemedicine in Primary Care", New Mexico Academy of Family Physicians 40th Annual Ruidoso-Family Practice Seminar, Ruidoso, NM. July 14-17, 1997	1997
Alverson DC, "Accessing Pediatric Health Care Information on the Net: Surfing with Dr. Dale." The Amazing Newborn Conference, Albuquerque, NM, November 7, 1997	1997
Alverson DC, "Telemedicine in Pediatrics and Primary Care"; Financing Telehealth at a Regional Level: Real Life Experiences-Panel". Paying for Telehealth Conference. Denver, CO, February 2, 1998	1998
Alverson DC, "Telemedicine and Legal Issues", International Academy of Trial Lawyers Conference, Vietnam, March 17, 1998	1998
Alverson DC. "New Mexico Telemedicine Network/ UNM Telemedicine Program", IHS Information Technology Conference, Albuquerque, NM July 29, 1998	1998
Alverson DC, Telemedicine: Clinical Applications. New Mexico Telemedicine Network Conference, Albuquerque, NM , Nov. 6, 1998	1998
Alverson DC, "UNM HSC Telemedicine Program". NMHR USF Conference Albuquerque, NM, Nov. 16, 1998	1998
Alverson DC, "Telepathology and Laboratory Medicine". New Mexico Society for Clinical Laboratory Science Annual Meeting, Albuquerque, NM, March 26, 1999	1999
Alverson DC, "Telemedicine from a Doctor's Point of View" NMHR USF Conference, Albuquerque, NM, April 12, 1999	1999
Alverson DC. "Telemedicine in Alamogordo" Alamogordo Rotary Club, Alamogordo, NM, April 14, 1999	1999
Alverson DC, "Telemedicine Business Planning Review" NMTN Annual Conference, Albuquerque, NM. Sept 13, 1999	1999
Alverson DC, "NMTN Overview and Tour" ATSP Annual Conference, Albuquerque, NM, Sept 14-17, 1999	1999
Alverson DC, "Telehealth, From Mars and Beyond" ATSP Annual Conference, Albuquerque, NM, Sept 14-17, 1999	1999

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson, DC. "US West Business Planning Tool Assessment" ATSP Annual Conference, Albuquerque, NM, Sept 14-17, 1999	1999
Alverson DC, "Telemedicine from a Directors Perspective" Panel Discussion Moderator on Barriers to Utilization ATSP Annual Conference, Albuquerque, NM. Sept 14-17, 1999	1999
Alverson DC, "Cybercare for the Fetus and Newborn" Current Concepts and Controversies in Perinatal Care Albuquerque, NM, Sept 17. 1999	1999
Alverson, DC, "Telemedicine: What is it and what does it mean to family physicians?" American Academy of Family Physicians, New Mexico Chapter, Annual Conference Albuquerque, NM, January 23,2000	2000
Alverson, DC, "Regulatory Issues Which Impact Telehealth/eHealth; from a Physician's Perspective" Association of Telemedicine Service Providers 2000 Minneapolis, MN, September 2000	2000
Alverson. DC, "Telemedicine 101- The Industry and Different Approaches to Program Launching" Association of Telemedicine Service Providers 2000 Minneapolis, MN. September 2000	2000
Alverson, DC, "Telemedicine: Relevance to Healthcare Delivery in Rural America" St. Alexius Telecare Network Conference, Bismarck, ND, September 2000	2000
Alverson, DC, "Telemedicine: Relevance to Healthcare Delivery in New Mexico" New Mexico Medical Group Management Association, Albuquerque, NM, September 2000	2000
Alverson, DC, "Telemedicine: Relevance to Healthcare Delivery In the 21th Century" American Association of Medical Assistants 44 th Annual Convention, Albuquerque, NM. September 2000	2000
Alverson. DC, "TOUCH project", Distributed Medical Intelligence Conference, Breckenridge, CO, March 2001	2001
Alverson, DC, "Telemedicine 101" and Teleradiology Panel, I H S Information-Technology Conference, Albuquerque, NM, July 2001	2001
Alverson. DC, "Telemedicine/Telehealth and the CyberMedicine Revolution: Relevance to Healthcare Delivery and Neonatal/Perinatal Medicine? New Mexico Association of Neonatal Nurses Conference, October, 2001	2001
Alverson, DC, "Telemedicine in New Mexico: Where we're at and where we're headed" New Mexico Home Health Care Conference, Albuquerque, NM, November, 2001	2001

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC, CaudellTP, "Introduction to the Access Grid Adventures in Super Computing Challenge Winter Workshop, UNM HPCERC, Albuquerque, NM, January 30,2002	2002
Alverson, DC, "Telemedicine in New Mexico: Where we're at and where we're headed TVI Health Professions Career Day, Albuquerque, NM, March 5,2002	2002
Alverson, DC, "The CyberMedicine Revolution: Relevance to Healthcare Delivery of the Future. Where are We Going?", Inland Northwest Health Services Telehealth Conference, Spokane, WA, March 20,2002	2002
Alverson, DC," Telehealth: The Next Generation of Healthcare Delivery", New Mexico Biotechnology and Biomedical Association Conference, Santa Fe, NM, April 9, 2002	2002
Alverson, DC," The Future of the Telehealth System: The Next Generation of Healthcare Delivery", New Mexico Hospital Association of Medical Auxiliaries District III, Roswell, NM, April 13, 2002	2002
Alverson, DC, "Project TOUCH: (Telehealth Outreach for Unified Community Health) Incorporating new technologies into medical education and training", NASA/MITAC Just-in-Time Education Workshop, Virginia Commonwealth University, Richmond, VA, May 13-14, 2002	2002
Alverson DC, "The Future of the Telehealth System: The Next Generation of Healthcare Delivery", New Mexico Telemedicine Conference sponsored by ABBA, Albuquerque, NM, May 17,2002	2002
Alverson DC, Harrison J, "Hot Topics: New Mexico Health Care Issues", The 2002 Economic Vitality Summit, Tamaya Resort, New Mexico, August 20,2002	2002
Shannon, S, Alverson, DC, "Roundtable: Partnering For Access Through Telehealth Technology", 28 th Annual Conference, National Association for Rural Mental Health, Santa Fe, NM, August 28,2002	2002
Alverson DC, Caudell TC, "Telehealth UNLV High Performance Computing Site Visit, UNM HPCERC, Albuquerque, NM, October 10,2002	2002
Chilton L, Alverson DC, "The Media in Child Advocacy" New Mexico Pediatric Society Fall Meeting Socorro, NM, October 13, 2002	2002

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC, "Supercomputing in Your Future; From Here to the Cosmos! The CyberMedicine Revolution" 2002-2003 Adventures in Super Computing Challenge, Glorietta, NM, October 21, 2002	2002
Alverson DC, Saiki S, "Project TOUCH" (Telehealth Outreach for Unified Community Health) 2002 AAMC Annual Meeting San Francisco, CA, November 10-11, 2002	2002
Alverson DC. "Project TOUCH: Internet2 Based Integration Of Advanced Technologies for Distributed Medical Education" Internet2 Day, University of New Mexico, March 28, 2003	2003
Alverson DC, Joseph S, "Public health and the Media" 2003 RAMBO Sevilleta Conference Sevieta, NM, April 22, 2003	2003
Alverson DC, "A State Model for Telehealth" iNnovations: Exploring Internet-based Healthcare Communications Arkansas Foundation-for Medical Care Taos, NM, May 15, 2003	2003
Alverson DC, "The Virtual Collaborative Clinic, Mission To Mars, Virtual reality in Outer Space" Symposium on Distributed Interactive Virtual Environments University of Western Australia interactive Virtual Environments Centre Perth, Australia, May 27, 2003	2003
Alverson DC, Caudell TP, "Project TOUCH- A Virtual Tele-Environment for integrated Telehealth Applications" Symposium on Distributed Interactive Virtual Environments University of Western Australia Interactive Virtual Environments Centre Perth, Australia, May 28, 2003	2003
Alverson DC, "Future of Telehealth: Next Generation of Healthcare Delivery-A Solution to Access?" Perinatal Grand Rounds, King Edwards Memorial Hospital Perth, Australia, June 6, 2003	2003
Alverson DC. Pullara F, "Telemedicine: Virtual Health Outreach And Education Using Information Technologies and Telehealth" Making it Happen inside and Out: Corrections, Public Health and Community Conference, Albuquerque, NM June 11, 2003	2003
Alverson DC, "Flying High and Fast: High Frequency Jet Ventilation", New Mexico Association of Neonatal Nurses Annual Meeting 2003, Albuquerque, NM. October 2003	2003

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

- Alverson DC, "The Application of Telemedicine in Rural Communities and the Challenges to Health Issues in New Mexico". Ibero-American Science & Technology Education Consortium, NM IT Challenge, Albuquerque, NM, November 6-7, 2003 2003
- Alverson DC, "The Application of Telemedicine in Rural Communities and the Challenges to Health Issues in New Mexico and Latin America". Ibero-American Science & Technology Education Consortium, First ISTE International Telemedicine Meeting, Santa Cruz, Bolivia, December 3-5, 2003 2003
- Alverson DC, Speedie S, Effective Management Techniques In the Distance Learning Environment. In Telehealth: The Time Has Come, 9th Annual OAT Grantee Meeting, Bethesda, MD, January 11-14, 2004 2004
- Alverson, DC, "Distributed Interactive Virtual Environments for Collaborative Experiential Learning and Training Independent of Distance over Internet2", 4th Annual International Meeting on Medical Simulation, Hyatt Tamaya Resort, NM, January 17, 2004 2004
- Alverson DC, Shannon S, Prill A, Sullivan E, Effertz G, Preston A, Beffort S: Forming a State-Wide Telehealth Alliance in New Mexico: A Network of Networks Model. Alaska Telehealth Advisory Council, Anchorage, Alaska, March 3, 2004 2004
- Alverson DC, Shannon S, Prill A, Sullivan E, Effertz G, Preston A, Beffort S: Forming a State-Wide Telehealth Alliance in New Mexico: A Network of Networks Model. New Mexico Medical Directors Meeting, Albuquerque, March 11, NM 2004 2004
- Alverson DC, Shannon S, Prill A, Sullivan E, Effertz G, Preston A, Beffort S: Forming a State-Wide Telehealth Alliance in New Mexico: A Network of Networks Model. Telehealth Leadership Conference, Arlington, VA, March 16, 2004 2004
- Alverson DC. Healthcare and Health Education in Cyberspace: Using Information Technologies and Telehealth to Alleviate Healthcare Access and Knowledge Disparities. The Snyder Lecture, Info Fair 2004 Spencer S. Eccles Health Sciences Library, University of Utah, Salt Lake City, March 23, 2004 2004
- Alverson DC, "The Application of Telemedicine in Rural Communities and the Challenges to Health Issues in New Mexico and Latin America". Universidad de Carabobo, Valencia, Venezuela, April 26, 2004 2004
- Alverson DC. Project TOUCH. Reacciun2 Conference, Centro Nacional de Tecnologia de Informacion, Caracas, Venezuela. April 29-30, 2004 2004

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC (as part of panel) Advanced Initiatives in Medical Simulation; State of the Science: Researcher Panel. Advanced Initiatives in Medical Simulation Conference. Silver Spring, MD, May 10-11,2004	2004
Alverson DC. Proyecto TOUCH: Simulacion Realidad Virtual Interactivo Distribuido Independiente a Distancia via Internet2 para ei Educacion de Medicina. International Distributed Medical Intelligence Conference and American Telemecicina Association, Latin American Caribbean Chapter Conference. Mendoza, Argentina, August 1-4, 2004	2004
Aiverson DC. Formacion de una Red Internacional de Redes en Telesalud y Colaboracion Virtual. International Distributed Medical Intelligence Conference and American Teiemedicine Association, Latin American Caribbean Chapter Conference. Mendoza, Argentina. August 1-4.2004	2004
Alverson DC. Sustentabilidad de Telesalud. International Distributed Medical Intelligence Conference and American Telemecicine Association, Latin American Caribbean Chapter Conference. Mendoza, Argentina, August 1-4, 2004	2004
Alverson DC. Proyecto TOUCH: Simulacion Realidad Virtual Interactivo Distribuido Independiente a Distancia via Internet2 para el Educacion de Medicina. Universidad Tecnologia Equinocciai, Quito. Ecuador, August 11, 2004	2004
Alverson DC. Formacion de una Red Internacional de Redes en Telesalud y Colaboracion Virtual. Universidad Tecnologia Equinoccial, Quito. Ecuador, August 11, 2004	2004
Alverson DC. Sustentabilidad de Telesalud. Universidad Tecnologia Equinoccial, Quito, Ecuador, August 11, 2004	2004
Alverson DC. Forming a State-Wide Teiehealth Alliance in New Mexico: A Network of Networks Model. Nebraska Rural Health Association Conference, Kearney, Nebraska, September 10, 2004	2004
Alverson DC. The CyberMedicine Revolution Supercomputing in <u>Your</u> Future; From Here to the Cosmos!. Good Samaritan Health Systems Medical Staff Meeting, Kearney, Nebraska, September 10,2004	2004
Alverson DC. Distributed Immersive Virtual Reality Simulation Development for Medical Education over Internet2, As part on a panel; The Role and Value of <i>Advanced</i> Networking in Teaching and Learning. Fall Internet2 Membership Conference Austin, TX, September 28, 2004	2004
Alverson DC. Cutting Edge of Teleheaith. New Mexico Coalition For Health Information Leadership Initiatives. Albuquerque, NM, October 18. 2004	2004

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):

Alverson DC. Distributed Immersive Virtual Reality Simulation Development for Medical Education over 12 West-Midwest APC/PDAS Regional meeting. Santa Fe, NM, October 28, 2004	2004
Alverson DC. Formation of an International Network of Networks for Telehealth and Virtual Collaboration AIRDS. Albuquerque, NM, November 10,2004	2004
Alverson DC. Formacion de una Red Internacional de Redes en Telesalud y Colaboracion Virtual.and Proyecto TOUCH: Simulacion Realidad Virtual Interactivo Distribuido Independiente a Distancia via Internet2 para el Educacion de Medicina. ISTECS XIV General Assembly/ISTEC Salud Reunion, University of South FloridaSF, Tampa, FLA. December 1-2, 2004	2004
Alverson DC. Cutting Edge of Telehealth. Forming a State-Wide Telehealth Alliance in New Mexico: <i>A Network of Networks</i> Model NM Bar Conference, Technology, e-Commerce and the Practice of Law: A 2005 Update, April 8, 2005	2005
Alverson DC. New Mexico Telehealth: Past, Present and Future The New Mexico Telehealth Alliance Spring Conference, Albuquerque, NM, May 5, 2005	2005
Alverson DC: JCAHO and Telehealth. Telehealth Leadership Conference, Washington DC, June 6-8, 2005	2005
Alverson DC: Formation of an International Network of Networks. for Telehealth and Virtual Collaboration. Telehealth Leadership Conference, Washington DC, June 6-8, 2005	2005
Alverson DC: New Mexico Telehealth: Forming a State-Wide Telehealth Alliance in New Mexico: <i>A Network of Networks</i> Model University of New Mexico Knowledge management Information Technology Advisory Committee, June 15. 2005	2005
Alverson, DC. Advanced Technologies for Training: DISTRIBUTED IMMERSIVE VIRTUAL REALITY SIMULATION Defense Nuclear Weapons School Workshop, Kirtland AFB, Albuquerque, NM. June 28,2005	2005
Alverson DC. Proyecto TOUCH: Simulacion Realidad Virtual Interactivo Distribuido Independiente a Distancia via Internet2 para el Educacion de Medicina. Universidad Tecnologica Equinoccial, School of Medicine, Quito, Ecuador, July 6, 2005	2005
Alverson DC. Formation of an International Network of Networks for Telehealth and Virtual Collaboration. Pan American Health Organization, WHO Collaborating Center for Partnerships in Health. Albuquerque, NM, August 2005	2005
Alverson DC. Respiratory Therapy Training in Cyberspace: Serious Games. New Mexico Society for Respiratory Care Annual meeting 2005, Albuquerque, NM, August 30,2005	2005

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS (continued):

Alverson DC (Panel Moderator), Heil W, Clyburn C, Alternative Perspectives: Thinking Outside the Box. ATA Technology Summit, Palm Springs, CA, September 13, 2005	2005
Alverson DC: Healthcare and Health Education in Cyberspace Society for the Technological Advancement of Reporting Albuquerque, NM, October, 2005	2005
Alverson DC. Telehealth: Healthcare and Health Education in Cyberspace-Using Information Technologies and Telehealth to Alleviate Healthcare Access and Knowledge Disparities. Association of Health Facility Survey Agencies 35th Annual Training Conference, Albuquerque, NM, October, 2005	2005
Alverson DC. New Mexico Telehealth; Forming a State-Wide Telehealth Alliance in New Mexico -A Network of Networks Model: The Potential for Children's Telehealth Services. UNM Pediatric Grand Rounds. October, 2005	2005
Alverson DC. New Mexico Telehealth: Forming a State-Wide Telehealth Alliance in New Mexico: A Network of Networks Model- What we must do now! Hispano/Latino Health Summit, Albuquerque, NM October 2005	2005
Alverson, DC. New Mexico Telehealth: Forming a State-Wide Telehealth Alliance in New Mexico: A Network of Networks Model- What we must do now! New Mexico Homecare and Hospice Association Annual conference, Albuquerque, NM, October, 2005	2005
Alverson DC. Four Corners Telehealth Consortium. Four Corners Public Health Consortium Annual Conference, Durango, CO, October 2005	2005
Alverson, DC. New Mexico Telehealth; Forming a State-Wide Telehealth Alliance in New Mexico- A Network of Networks Model Colorado Telehealth Symposium, Denver, CO, November, 2005	2005
Alverson, DC. Advanced Technologies for Training: DISTRIBUTED IMMERSIVE VIRTUAL REALITY SIMULATION UNM EEC lecture series, November, 2005	2005
Alverson DC. New Mexico Telehealth; Forming a State-Wide Telehealth Alliance in New Mexico - A Network of Networks Model UNM Medical Informatics Lecture series, November, 2005	2005
Alverson, DC. Advanced Technologies for Training: DISTRIBUTED IMMERSIVE VIRTUAL REALITY SIMULATION UC Davis Medical Informatics lecture series, November, 2005	2005
Alverson, DC, Un Paradigma Emergente: Telesalud e ISTECSalud Formacion de un Red de Redes Internacional <i>para</i> Telesalud and Colaboracion Virtual. ISTECSalud General Assembly XV Sao Paulo, Brasil November 30, 2005	2005

INVITED EDUCATIONAL LECTURES AND PRESENTATIONS (continued):

Alverson DC. Forming Telehealth Alliances National Telehealth Grand Rounds, Video conference from UNM December, 2005	2005
Alverson, DC. . New Mexico Telehealth; Forming a State-Wide Telehealth Alliance in New Mexico- A Network of Networks Model Potential for Pediatric Services. San Juan Regional Medical Center Medical Staff meeting, December, 2005	2005
Alverson, DC. Virtual Reality Simulation: Pediatric Simulation Technology. International Meeting on Medical Simulation, San Diego, CA, January, 2006	2006
Alverson, DC. Virtual Reality Simulation: Lessons Learned International Meeting on Medical Simulation, San Diego, CA, January, 2006	2006
Alverson DC. Mechanical Ventilation of the Newborn. TVI RT lecture series, Albuquerque, NM, February, 2006	2006
Alverson DC. Virtual Renal Physiology Model. Conference on Integrating Technology and Evidence-Based Education: A Hands-on Experience for Health Sciences Educators. Albuquerque, NM, February 2006	2006
Aiverson DC. The Access Grid Demonstartion. Conference on Integrating Technology and Evidence-Based Education: A Hands-on Experience for Health Sciences Educators. Albuquerque, NM, February 2006	2006
Alverson DC. New Mexico Telehealth: Forming a State-Wide Telehealth Alliance in New Mexico- A Network of Networks Model Relationship to Diffusion of Innovations Theory. UNM Communications and Journalism Class, March 2006	2006
Alverson DC. Distributed Virtual Reality Simulation: "Serious Games" in Cyberspace. Telehealth Leadership Conference, Washington DC, March 2006	2006
Alverson DC. Emerging Paradigms: Formation of an International Network of Networks for Telehealth and Virtual Collaboration. UNM School of Medicine International Forum, Albuquerque, NM, March 2006	2006
Alverson DC. Implications of New Technology in the Practice of Medicine: Forming Telehealth Alliances; A Network of Networks Model. Federation of State Medical Boards Annual Conference, Boston, MA, April 2006	2006

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Education

- 1982 Ph.D., Georgia Institute of Technology; School of Information and Computer Sciences; Advisor, Richard LeBlanc; “Language Features for Fully Distributed Processing Systems”
- 1980 M.S., Georgia Institute of Technology; Information and Computer Sciences; Advisor, Shannon Brunjes/William Underwood.
- 1977 B.S. (with distinction), University of Arizona; Mathematics

Employment

- present–2007 Chief Information Officer (Interim), University of New Mexico, Albuquerque, New Mexico.
- present–2006 Professor of Computer Science, University of New Mexico, Albuquerque, New Mexico.
- 2007–2004 Director, UNM Center for High Performance Computing University of New Mexico, Albuquerque, New Mexico.
- 2006–1993 Associate Professor of Computer Science, University of New Mexico, Albuquerque, New Mexico.
- 1993 Faculty Sabbatical, Massively Parallel Computing Research Laboratory, Sandia National Laboratories, Albuquerque, New Mexico.
- 1993–1982 Assistant Professor of Computer Science, University of New Mexico, Albuquerque, New Mexico.
- 1981 Teaching Assistant, School of Information and Computer Science, Georgia Institute of Technology, Atlanta, Georgia.
- 1982–1980 Research Assistant, the Research Program in Fully Distributed Processing Systems, School of Information and Computer Science, Georgia Institute of Technology, Atlanta, Georgia.
- 1979–1979 Operations Supervisor, Computer Science Laboratory, School of Information and Computer Science, Georgia Institute of Technology, Atlanta, Georgia.
- 1997–1974 Tutor, Department of Mathematics, University of Arizona, Tucson, Arizona.

Honors

- 2006 School of Engineering Senior Research Award
- 1997 School of Engineering Senior Teaching Award.
- 1996 College of Engineering Student’s Faculty Recognition Award.

- 1992–1989 Halliburton Lecturer, University of New Mexico, College of Engineering.
 1991 College of Engineering Student's Faculty Recognition Award.
 1977 NIH/NLM Biomedical Trainee, Georgia Institute of Technology.

Professional Activities

- present–2002 Chair, Technical committee for FAST-OS (Forum to Address Scalable Technology for runtime and Operating Systems), a DoE Office of Science initiative to establish a research program for highly scalable operating systems.
- 2006–2002 Member, External Review Committee for LANL's CCN (Computing, Communications, and Networking) Division.
- 2006, 2005, 2002 Member, External Review Committee for Sandia's CCIM (Computers, Computation, Information, and Mathematics) Center.
- 2006 Organizer, FAST-OS PI Meeting (May 20&30, Boston, MA).
- 2006 Technical Program Committee, Supercomputing.
- 2006, 2005, 2004 Organizer, FAST-OS Birds of a Feather meeting at Supercomputing.
- 2006 Workshop co-chair, HiperIO, IEEE International Conference on Cluster Computing.
- 2006, 2005 Program Committee, IEEE International Conference on Cluster Computing.
- 2006, 2005 Steering Committee Member, Linux Cluster Institute International Conference on Cluster Computing, the HPC Revolution.
- 2005–2001 Organizing Committee, LACSI Symposium.
- 2005, 2004 co-Organized (along with Jeanine Cook from NMSU, Lone Liebrock from NMT, and Pat Teller from UTEP), High-end Computing Along the Rio Grande Booth at Supercomputing.
- 2005 Organizer, FAST-OS PI Meeting (June 9&10, Washington, D.C.).
- 2005–2003 Local arrangements chair, LACSI (Los Alamos Computer Science Institute) Symposium.
- 2004–2005 Member, UNM Research Cabinet.
- 2005 Member, UNM IT Cabinet.
- 2005 Member UNM Next Generation Media Initiative Steering Committee.
- 2004 Workshop chair for High Speed Local Networks Workshop at IEEE Local Computer Networks Conference.
- 2004 Tutorial co-Chair and Program Committee Member, Linux Cluster Institute International Conference on Cluster Computing, the HPC Revolution.
- 2003 Publicity Chair, IEEE International Conference on Cluster Computing.
- 2003 Organizer, FAST-OS (Forum to Address Scalable Technology for runtime and Operating Systems) Workshop (July 9&10, Washington, D.C.).
- 2003 Program Committee Member, Linux Cluster Institute International Conference on Cluster Computing, the HPC Revolution.

- 2002 Organizer, FAST-OS (Forum to Address Scalable Technology for runtime and Operating Systems) Workshop (July 9&10, Chicago, IL.).
- 2000 Organizer and presenter, Tutorial on Design and Analysis of High Performance Clusters for Supercomputing.
- 200–1996 Consulting with Micron Communications, Inc. to develop practical cryptographic protocols for RF based smart cards.
- 2000–1992 Develop, maintain, and enhance tkisem, a free software package that emulates the SPARC processor for instructional purposes.
- 1998 co-Editor (with Steve Chapin), special issue of *Software: Practice and Experience* on Parallel and Distributed Operating Systems.
- 1997 co-Editor (with Steve Chapin), special issue of *IEEE Concurrency: Parallel, Distributed and Mobile* Computing on Parallel and Distributed Operating Systems.
- 1997, 1996 University of New Mexico Athletic Council.
- 1996 co-organizer (with Steve Chapin), Mini-track on Parallel and Distributed Operating Systems for HICSS (Hawaii International Conference on Systems Sciences).
- 1993 Member, MPI (Message Passing Interface) Forum.
- 1992, 1991 co-Chair for the State of New Mexico Commission on Articulation in Computer Science.
- 1992 co-organizer (with Bill Huntman), DOE Workshop on Future Directions in Computer Security (August 17-18, Albuquerque, NM).

Ph.D. Dissertations Supervised

- 2005 Patricia Gilfeather, “Splintering Commodity Network Protocols in High-Performance Computing.”
- 2004 Jared Dreicer, “High Performance Computing Spare Replacement Hardware Fault Tolerance.”
- 2002 Rolf Riesen, “Message-Based, Error-Correcting Protocols for Scalable High-Performance Networks.”
- 2001 Chu Jong, “Scalability Issues in the Development of Tools for Massively Parallel Systems.”
- 1997 Philip L. Campbell, “Using Execution Discipline to Accelerate Computer Programs.”
- 1996 Francisco R. Reverbel, “Persistence in Distributed Object Systems: ORB/ODBMS Integration.”
- 1994 Ksheerahdhi Krishna, “Representing and Extracting Program Dependences.”
- 1992 Stephen R. Wheat, “A Fine Grained Data Migration Approach to Application Load Balancing on *MP* MIMD Machines.”

M.S. Theses Supervised

- 2005 Galen Shipman, “Infiniband Scalability in Open MPI.”
- 2004 Satish Sambasivan, “Design and Implementation of a Trouble Ticketing System.”

- 2003 Sean Brennan, "Distributed Sensor Network Software Development Testing Through Simulation."
- 2003 Edgar Leon, "An MPI Tool to Measure Application Sensitivity to Variation in Communication Parameters."
- 2002 Wenbin Zhu, "OS Bypass Investigation and Experimentation."
- 2002 William Lawry, "COMB: A Portable MPI Benchmark to Assess Overlap."
- 2002 Dennis Lucero, "Transient Cplant"
- 2001 Todd Underwood, "Improving IP Performance by Offloading Fragmentation and Reassembly."

Funded Research

- 2009–2006 "A Framework for Dynamic Retasking and Redeployment Sensor Networks." Principal Investigator, US Department of Energy National Nuclear Security Agency, Amount: \$750,000.
- 2008–2005 "A Framework for Adaptable Operating and Runtime Systems," Principal Investigator, US Department of Energy Office of Science, Amount: \$750,000.
- 2007–2002 "Scalable Systems Software Research," Principal Investigator, Sandia National Laboratories, Amount: \$950,000.
- 2007–2002 "Operating System and Networking for Distributed Sensor Networks," Principal Investigator, Los Alamos National Laboratory, Amount \$150,000.
- 2006–2003 "PERCS Productive, Easy-to-Use, Reliable Computing Systems," Co-Principal Investigator, DARPA/IBM, Amount: \$600,000 (no overhead).
- 2006–2002 "Los Alamos Computer Science Institute," co-Principal Investigator, Los Alamos National Laboratory, Amount \$600,000
- 2002–1996 "Continued Development of the Puma Operating System for Massively Parallel Systems," Principal Investigator, Sandia National Laboratories, Amount: \$947,000.
- 2002 "High Performance Computing Fault-Tolerance," Principal Investigator, Los Alamos National Laboratory, Amount: \$25,000.
- 2002–2001 "Benchmark for Measuring Operating System Bypass Performance," Principal Investigator, Computer Science Research Institute, Sandia National Laboratories, Amount: \$43,000.
- 1995–1993 "Library Support for SUNMOS/PUMA," Principal investigator, Sandia National Laboratories, Amount: \$215,197.
- 1993–1992 "Thread Annotations with Dataflow Semantics," Principal Investigator, Sandia National Laboratories, Amount: \$63,000.
- 1993–1991 "Library Support for SUNMOS," Principal investigator, Sandia National Laboratories, Amount: \$26,000.
- 1992–1991 "The Current Status *of* SUNMOS," Principal investigator, Sandia National Laboratories, Amount: \$13,000.

- 1992–1991 “Leveled Monitoring.” Principal Investigator, Los Alamos National Laboratory, Amount: \$50,000.
- 1992–1991 “Leveled Monitoring and Analysis in Local Area Networks.” Principal Investigator, National Security Agency, Amount: \$57,000.
- 1991–1990 “Leveled Monitoring.” Principal Investigator, Los Alamos National Laboratory, Amount: \$50,000.
- 1990–1989 “Leveled monitoring in Intrusion Detection Systems.” Principal Investigator, Los Alamos National Laboratory, Amount: \$20,000.
- 1989 “Imperative Languages for the ϵ ps ‘88 Architecture,” Co-Principal Investigator, Sandia National Laboratories, Amount: \$20,000.
- 1985 “A Distributed Implementation of P&NS,” Principal Investigator, Sandia University Research Program, Amount: \$30,000.
- 1985 “Identification of Parallelism in Existing Software,” Principal Investigator, Sandia National Laboratories, Amount: \$14,112.
- 1985 “Micro Electronic Process Development,” Co-Principal Investigator, Sandia National Laboratories, Amount: \$64,843.
- 1984 “Introducing Protocol Specifications into Pronet,” Principal Investigator, Sandia University Research Program, Amount: \$30,000.

Book

Computer Systems: Architecture, Organization, and Programming, Richard Irwin, Inc (now McGraw-Hill), 1993.

Referred Journal Publications

- R. Brightwell, W. Camp, B. Cole, E. DeBenedictis, R. Leland, J. Tomkins, and A. B. Maccabe, “Architectural specification for massively parallel computers: An experience and measurement-based approach,” *Concurrency and Computation: Practice and Experience*, Special Issue: Performance Issues in Computer Architecture and Design, 17(10):1271–1316, August 2005.
- Angela M. Mielke, Sean M. Brennan, Mark C. Smith, David C. Torney, Arthur B. Maccabe, and Josh F. Karlin. Independent sensor networks. *IEEE Instrumentation and Measurement*, June 2005.
- S. Brennan, A. M. Mielke, D. C. Torney and A. B. Maccabe, “Radiation Detection with Distributed Sensor Networks,” *IEEE Computer*, 37(8), August 2004, pages 57–59.
- R Brightwell, A. B. Maccabe, R. Riesen, “Design, Implementation, and Performance of MPI on Portals 3.0,” *International Journal of High Performance Computing Applications*, Volume 17, Number 1, Spring 2003.
- R. Brightwell, L. A. Fisk, D. S. Greenberg, T. Hudson, M. Levenhagen, R. Riesen and A. B. Maccabe, “Massively Parallel Computing Using Commodity Components,” *Parallel Computing*, vol 26, number 2–3, pages 243–266, February 2000.
- S. R. Wheat, A. B. Maccabe, R. E. Riesen, D. W. van Dresser, and T. M. Stallcup, “PUMA: An Operating System for Massively Parallel Systems,” *Journal of Scientific Programming*, vol.

3, no.4, Winter 1994, (special issue on operating system support for massively parallel systems) pp 275–288.

- J. E. Sturtevant, A. B. Maccabe and P. M. Campbell, “Performance of a particle-in-cell plasma simulation code on the BBN TC2000,” *Concurrency: Practice and Experience*, Vol. 4, No. 1, 1992.

Referred Conference Publications

- G. Shipman, T. Woodall, R. Graham, A. Maccabe, P. Bridges, “Infiniband Scalability in Open MPI,” to appear in Proceedings of *2006 International Parallel and Distributed Processing Symposium (IPDPS)*, April 2006.
- P. Gilfeather and A.B. Maccabe, “Modeling Protocol Offload for Message-Oriented Communication,” in Proceedings of the *IEEE International Conference on Cluster Computing (Cluster 2005)*, September 2005.
- W. Zhu, P. Bridges, and A.B. Maccabe, “Online Critical Path Profiling for Parallel Applications,” in Proceedings of the *IEEE International Conference on Cluster Computing (Cluster 2005)*, September 2005.
- R. Brightwell, R. Riesen, K. Underwood, T. Hudson, P. Bridges, and A.B. Maccabe, “A Performance-Comparison of Linux and a Lightweight Kernel,” Proceedings of the *IEEE International Conference on Cluster Computing (Cluster2003)*, December 2003.
- R. Brightwell, A.B. Maccabe, and R. Riesen, “On The Appropriateness of Commodity Operating Systems for Large-Scale, Balanced Computing Systems,” Proceedings of *2003 International Parallel and Distributed Processing Symposium (IPDPS)*, April 2003.
- R. Brightwell, M. Levenhagen, R. Riesen and A.B. Maccabe, “A Performance Comparison of Myrinet Protocol Stacks,” Proceedings of *Third Linzix ClustersInstitute Conference on Linux Clusters*, October 2002.
- A.B. Maccabe, W. Zhu, J. Otto, and R. Riesen, “Experience in Offloading Protocol Processing to a Programmable NIC,” Proceedings of *IEEE International Conference on Cluster Computing*, September 2002.
- W. Lawry, C. Wilson, A. Maccabe, and R. Brightwell, “COMB: A Portable Benchmark Suite for Assessing MPI Overlap,” Proceedings of *IEEE International Conference on Cluster Computing*, September 2002.
- D.S. Greenberg, R. Brightwell, L.A. Fisk, and R. Riesen, and A.B. Maccabe, “A System Software Architecture for High-end Computing,” in Proceedings of *Supercomputing '97*, November, 1991.
- F. R. Reverbel and A.B. Maccabe, “Making CORBA Objects Persistent: the Object Database Adapter Approach,” in Proceedings of the *3rd USENIX Conference on Object-Oriented Technologies and Systems (COOTS'97)*, June 1997.
- S.R. Wheat, A.B. Maccabe, R.E. Riesen, D.W. van Dresser, and T.M. Stallcup, “PUMA: An Operating System for Massively Parallel Systems,” in *Proceedings of the 27th Hawaii International Conference on System Sciences*, January 1994.

- S.R. Wheat, K.D. Devine, and A.B. Maccabe, "Experience with Automatic, Dynamic Load Balancing and Adaptive Finite Element Computation," in Proceedings of the *27th Hawaii International Conference on System Sciences*, January 1994.
- K.D. Devine, J.E. Flaherty, S.R. Wheat, and A.B. Maccabe, "A Massively Parallel Adaptive Finite Element Method with Dynamic Load Balancing," in Proceedings of *Supercomputing '93*, November 1993.
- R.A. Ballance, A.B. Maccabe, and K.J. Ottenstein, "The program dependence web: A Representation Supporting Control, Data, and Demand-driven Interpretation of Imperative Languages," in Proceedings of the *SIGPLAN '90 Conference on Programming Language Design and Implementation (PLDI)*, White Plains, NY, June 20-22, 1990, ACM, pp. 257-271.
- A.B. Maccabe and R.J. LeBlanc, "The Design of a Programming Language Based on Connectivity Specifications," in Proceedings of *The third International Conference on Distributed Processing Systems (IEEE)*, November, 1982.
- A.B. Maccabe and R.J. LeBlanc, "A Language Model for Fully Distributed Systems," in *IEEE COMPCON FALL 1980*, September, 1980.
- A.B. Maccabe, W.E. Underwood and S. Brunjes, "Author Support for the Design of Automated Medical Interviews," Proceedings of *The Third Annual Symposium on Computer Application in Medical Care (IEEE)*, October, 1979.

Referred Workshops

- P. Gilfeather and A.B. Maccabe, "An Extensible Message-Oriented Offload Model for High-Performance Applications," in Proceedings of the *Los Alamos Computer Science Institute Symposium, October 2005*.
- S. Shanna, P. Bridges, and A. Maccabe, "A Framework for Analyzing Linux System Overheads on HPC Applications," in Proceedings of the *Los Alamos Computer Science Institute Symposium, October 2005*.
- P. Gilfeather and A.B. Maccabe, "Connection-Less TCP," *CAC Workshop (at IPDPS)*, Denver, April 2005.
- P. Bridges and A.B. Maccabe, "IMPULSE: Integrated monitoring and profiling for large-scale environments," In Proceedings of the *Seventh Workshop on Languages, Compilers, and Runtime Support for Scalable Systems*, October 2004.
- R. Riesen and A.B. Maccabe, "Simple, Scalable Protocols for High-Performance Local Networks," Proceedings of *IEEE Workshop on High Speed Local Networks*, November 2003.
- R. Riesen and A.B. Maccabe, "RMPP: The Reliable Message Passing Protocol," Proceedings of *IEEE Workshop on High Speed Local Networks*, November 2002.
- E.A. Leon, A.B. Maccabe, and R. Brightwell, "Instrumenting LogP Parameters in GM: Implementation and Validation," Proceedings of *IEEE Workshop on High Speed Local Networks*, November 2002.
- R. Brightwell, W. Lawry, A.B. Maccabe, and C. Wilson, "Optimizing an MPI Implementation to Increase CPU Availability," Proceedings of *IEEE Workshop on High Speed Local Networks*, November 2002.

- P. Gilfeather and A.B. Maccabe, “Making TCP Viable as a High Performance Computing Protocol,” Proceedings of the *LACSI Symposium*, October 2002.
- P. Gilfeather and A.B. Maccabe, “Splintering TCP,” Seventeenth International Symposium on Computer and Information Sciences, Special Session on Advanced Networking Hardware, October 2002.
- R. Brightwell, B. Lawry, and R. Reisen, and A.B. Maccabe “Portals 3.0 Protocol Building Blocks for Low Overhead Communication,” *CAC Workshop (at IPDPS)*, April, 2002.
- R. Brightwell and A.B. Maccabe, “Scalability Limitations of VIA-Based Technologies in Supporting MPI,” Proceedings of the *Fourth MPI Developer’s and User’s Conference*, March 2000.
- D.A. Bader, A.B. Maccabe, J.A. Mastler, J.K. McIver III, P.A. Kovatch, “Design and Analysis of the Alliance/University of New Mexico Roadrunner Linux SMP SuperCluster,” Proceedings of the *IEEE 1st International Workshop on Cluster Computing (IWCC)*, December 1999.
- A.B. Maccabe, R. McDonald and V. Anand, “Learning how to characterize normal behavior in local area networks,” *Fourth Workshop on Computer Security Incident Handling*, August 4–6, 1992, Denver, Colorado.

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Chaouki Abdallah	Professor & Chair, ECE Department University of New Mexico

EMPLOYMENT:

- **7/05---Present:** Professor & Chair Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM.
- **1/05---6/05:** Professor, Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM.
- **8/01---12/04:** Professor, Associate Chair, and Director of the Graduate Program, Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM.
- **8/00---7/01:** Associate Professor, Electrical and Computer Engineering, University of Tennessee, Knoxville, TN.
- **8/94---7/00:** Associate Professor, Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM.
- **9/88---7/94:** Assistant Professor, Electrical and Computer Engineering, University of New Mexico, Albuquerque, NM.

EDUCATION

INSTITUTION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Georgia Tech	Ph.D.	1988	EE
Georgia Tech	M.S.	1982	EE
Youngstown State Univ.	B.E.	1981	EE

MEMBERSHIP:

IEEE (Senior Member).

A. FIVE SELECTED RELEVANT PUBLICATIONS:

- 1) S. Tarbouriech, C.T. Abdallah, J.N. Chiasson, Editors, *Advances in Communication Control Networks*, Springer-Verlag, Heidelberg, Lecture Notes in Control and Information Sciences, Vol. 308, 2005.
- 2) S. Bengea, R. DeCarlo, P.F. Hokayem, and C.T. Abdallah, *Suboptimal Control Techniques for Hybrid Systems Operating via Networks*, pp. Lecture Notes in Control and Information Sciences, Springer-Verlag Edited volume 308, S. Tarbouriech, C.T. Abdallah, and J. Chiasson, Editors 2005, pp. 281--302.
- 3) J. Chiasson, Z. Tang, J. Ghanem, C. T. Abdallah, J.D. Birdwell, M.M. Hayat, and H. Jerez, "The Effect of Time Delays on the Stability of Load Balancing Algorithms for Parallel Computations," *IEEE Transactions on Control Systems Technology*, Vol. 13, No. 6, pp. 932--942, November 2005.
- 4) M.M. Hayat, S. Dhakal, J. Ghanem, H. Jerez, C. T. Abdallah, J.D. Birdwell and J. Chiasson, "On the Optimization of Load Balancing in Distributed Networks in the Presence of Delay," Springer-Verlag Edited volume, S. Tarbouriech, C.T. Abdallah, and J. Chiasson, Editors 2004.

- 5) R. Sandoval-Rodriguez, C.T. Abdallah, H. Jerez, and R.H. Byrne, "Experimental Results on the Effects of 802.11b WLAN on Networked Control System," Proceedings IEEE Mediterranean Control Conference, Cyprus, pp. 1113--1118, June, 2005.

B. OTHER RELEVANT PUBLICATIONS:

1. P. Dorato, C.T. Abdallah, and V. Cerone, **Linear Quadratic Control: An Introduction**, Second Printing with Corrections, Krieger Publishing Company, Malabar, FL, 2000.
 2. L. Menini, L. Zaccarian, and C.T. Abdallah, Editors, **Current trends in Nonlinear Systems and Control**, Birkhauser, Systems and Control: Foundations and Applications Series, 2006.
 3. Z. Tang, J. White, J. Chiasson, J.D. Birdwell, C.T. Abdallah and M.M. Hayat, "Closed-loop Load Balancing: Comparison of A Discrete Event Simulation with Experiments," Proceedings American Control Conference, pp. 2721--2726, Portland, Oregon, 2005.
 4. A. Regmi, R. Sandoval, R. Byrne, H. Tanner, and C.T. Abdallah, "Experimental Implementation of Flocking Algorithms for non-holonomic models," Proceedings American Control Conference, pp. 4917--4922, Portland, Oregon, 2005.
-

CURRENT STUDENTS:

1) **PhD. Students:** Jorge Piovesan, Joud Khoury, Ivan Lopez-Huertado, Lai Xu, and David Kozlowski.

2) **M.S. Students:** M. Majedi, A. Behshad, N. Antoun, S. Azar.

PREVIOUS PhD STUDENTS:

Rafael Sandoval-Rodriguez, Mohammed Hayajneh, Judd Rohwer.

DISSERTATION ADVISER

Professor Frank L. Lewis, Georgia Institute of Technology, currently at the University of Texas, Arlington.

RECENT COLLABORATORS:

- Dr. V. Koltchinski, Georgia Institute of Technology
- Dr. Mark Spong, University of Illinois, Urbana-Champaign
- Dr. Don Hush, Los Alamos National Laboratory.
- Dr. Bert Tanner, University of New Mexico.
- Dr. J. Chiasson, University of Tennessee.
- Dr. J. Douglas Birdwell, University of Tennessee.
- Dr. Judd Rohwer, Sandia National Laboratories.

NAME Krastan B. Blagoev		Staff Member	
eRA COMMONS USER NAME blagoev			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Sofia University, Sofia, Bulgaria	M.A.	1984-1990	High Energy Physics
Florida Atlantic University, Boca Raton, FL	M.A.	1990-1992	Condensed Matter
Boston College, Chestnut Hill, MA	Ph.D.	1992-1998	Condensed Matter
Cavendish Laboratory, Cambridge University,	Research	1998-1999	Theoretical Physics
Harvard Medical School, Harvard University:	Research	1999-2000	Biomedical Imaging

A. Positions and Honors

09/1998-09/1999: Research Fellow, Cavendish Laboratory, Cambridge University, UK
 09/1999-08/2000: Research Fellow, Brigham and Women's Hospital and Harvard University
 08/2000-06/2002: Research Assistant Professor, Physics Department, Boston College
 07/2001-07/2003: Assistant in Physics, NMR Center, Massachusetts General Hospital
 06/2002-Present: Technical Staff Member, Los Alamos National Laboratory

*Marquis Who's Who in America, 2007.

stinguished career award, Boston College Graduate School of Arts and Sciences, 2004.
 Strategic Hire Award, Los Alamos National Laboratory, 2002.

B. Selected peer-reviewed publications (in chronological order).

1. Krastan B. Blagoev, Luc T. Wille, First-order phase transition between orthorhombic phases in $\text{YBa}_2\text{Cu}_3\text{O}_z$, Phys. Rev. B48, 6588 (1993).
2. K. Kempa, P. Bakshi, D. Broido, K.B. Blagoev, Polarization of Electrons in Quantum Dashes in External Magnetic Field, Solid State Comm. 91, 231 (1994).
3. Krastan B. Blagoev and Kevin S. Bedell, Luttinger Theorem in One Dimensional Metals, Phys. Rev. Lett. 79, 1106 (1997).
4. V.I. Valtchinov, G. Kalman and K.B. Blagoev, Phases in Strongly Coupled Electronic Bilayer Liquids, Phys. Rev. E56, (1997).
5. K.B. Blagoev, J.R. Engelbrecht and K.S. Bedell, S-wave Superconductivity in Weak Ferromagnetic Metals, Phil. Mag. Lett. 78, 169 (1998).
6. K.B. Blagoev, J.R. Engelbrecht, and K.S. Bedell, Phases in Weak Ferromagnetic Metals, J. Phys. Chem. Solids 59, 1801 (1998).
7. K.B. Blagoev, J.R. Engelbrecht and K.S. Bedell, Effect of Ferromagnetic Spin Correlations on Superconductivity in Ferromagnetic Metals, Phys. Rev. Lett. 82, 133 (1999).
8. G.J. Kalman, K.B. Blagoev, K.I. Golden, G. McMullan, V. Valtchinov, and H. Zhao, Charged particle bilayers: Equilibrium and dynamics, J. Phys. IV France 10 (2000).
9. Krastan B. Blagoev, Fred Cooper, John F. Dawson, Bogdan Mihaila, Schwinger-Dyson approach to non-equilibrium classical field theory, Phys. Rev. D64, 125003 (2001).
10. N.I. Karchev, K.B. Blagoev, K.S. Bedell, and P.B. Littlewood, Coexistence of superconductivity and ferromagnetism in ferromagnetic metals, Phys. Rev. Lett. 86, 846 (2001).
11. P. Farinas, K.B. Blagoev, K.S. Bedell, and N. Studart, Towards the detection of a new ferromagnetic spin-wave mode, J. Magn. Magn. Mater. 226, 490 (2001).

12. Kevin S. Bedell and Krastan B. Blagoev, Quantum spin hydrodynamics and a new spin current mode in ferromagnetic metals, *Phil. Mag. Lett.* 81, (2001).
13. Jason A. Jackiewicz, Krastan B. Blagoev, Kevin S. Bedell, A model for coexistent superconductivity and ferromagnetism, *Phil. Mag.* 83, 3247-3254 (2003).
14. Choi CH, Moser J, Sobourin N, Blagoev K, Naughton M, Usheva A., YY1-DNA interaction results in a significant change of electronic context as measured by capacitance, *Biophys Chem.* 103:109-15 (2003).
15. Krastan B. Blagoev, Kevin S. Bedell, and Peter B. Littlewood, Blagoev et al. Reply:, *Phys. Rev. Lett.* 92, 199706 (2004).
16. GT Kenyon, JS George, BJ Travis, KB Blagoev, Models of the retina with application to the design of a visual prosthesis, *Los Alamos Science* 29, (2004)
17. Krastan B. Blagoev, Luc T. Wille, Disorder induced dynamical phase transition in one dimensional cellular automata, *Phil. Mag.* B84, 835 (2004).
18. M. M. Parish, B. Mihaila, E. M. Timmermans, K. B. Blagoev, and P. B. Littlewood, BCS-BEC crossover with a finite-range interaction, *Phys. Rev.* B71, 064513 (2005).
19. B. Mihaila. S. Gaudio, K.B. Blagoev, A. Balatsky, PB Littlewood, and D. Smith, Density and spin response functions in ultracold fermionic atom gases, *Phys. Rev. Lett.* 95, 090402 (2005).
20. C.P. Opeil, R.K. Schulze, B. Mihaila, H. M. Volz, J.C. Lashley, K.B. Blagoev, M.E. Manley, W.L. Hulst, R.J. Hanrahan Jr., R.C. Albers, P.B. Littlewood, and J.L. Smith, Angle-resolved photoemission study of a (001) α -uranium single crystal, *Phys. Rev.* B75, 045120 (2007).
21. K.B. Blagoev, B.S. Alexandrov, E.H. Goodwin, and A.R. Bishop, Ultra-violet light induced changes in DNA dynamics may enhance TT-dimer recognition, *DNA repair* 5, 863-867 (2006).
22. B.S. Alexandrov, L.T. Wille, K.O. Rasmussen, A.R. Bishop, and K.B. Blagoev, Bubble Statistics and Dynamics in Double-Stranded DNA, *Phys. Rev.* E74, 050901(R) (2006).
23. Bogdan Mihaila, Krastan B. Blagoev, and Fred Cooper, Phases of a fermionic model with chiral condensates and Cooper pairs in 1+1 dimensions, *Phys. Rev.* 073,016005 (2006).
24. B. Mihaila, S. A. Crooker, K. B. Blagoev, D. G. Rickel, P. B. Littlewood, and D. L. Smith, Spin noise spectroscopy to probe quantum states of ultracold fermionic atom gases, *Phys. Rev.* A74, 063608 (2006).
25. C.P. Opeil, R.C. Albers, K.B. Blagoev, M. Gulacsi, J.C. Lashley, P.B. Littlewood, M.E. Manley, B. Mihaila, P.S. Riseborough, R.K. Schulze, D.J. Thoma, H.M. Volz, and J.L. Smith, Photoelectric Effect in Uranium, *J. Phys. Soc. Japan.* 75 (2006).
26. B. Mihaila, SA. Crooker, DG Rickel, KB Blagoev, PB Littlewood, and DL Smith, Quantitative study of spin noise spectroscopy in a classical gas of 41K atoms, *Phys. Rev.* A74, 043819 (2006).
27. C.P. Opeil, R.K. Schultze, M.E. Manley, J.C. Lashley, W.L. Hulst, RJ. Hanrahan Jr., J.L. Smith, B. Mihaila, K.B. Blagoev, R.C. Albers, and P.B. Littlewood, Valence-band UPS 6p core-level XPS, and LEED of uranium (001) single crystal, *Phys. Rev.* B73, 165109 (2006).
28. B. Mihaila, Opeil, C. P. Drymiotis, F. R. Smith, J. L. Cooley, J. C. Manley, M. E. Migliori, A. Mielke, C. Lookman, T. Saxena, A. Bishop, A. R. Blagoev, K. B. Thoma, D. J. Lashley, J. C. Lang, B. E. Boerio-Goates, J. Woodfield, B. F. Schmiedeshoff, G. M., Pinning frequencies of the collective modes in alpha-uranium, *Phys. Rev. Lett.* 96, 076401 (2006).
29. O. Maillard, S. Solyom, U. Camenisch, K.B. Blagoev, and H. Naegeli, How the nucleotide excision repair reaction achieves DNA damage specificity and strong selectivity, accepted in *DNA repair* (2007).
30. K.B. Blagoev, B. Mihaila, B.J. Travis, L.B. Alexandrov, A.R. Bishop, D. Ranken, S. Posse, C. Gasparovic, A. Mayer, C.J. Aine, M. Morita, W. Muller, J. Connor, Ulbert, E. Halgren, Modelling the magnetic signature of neuronal tissue, *Neuroimage* (2007) in press.
31. T. Antal, K.B. Blagoev, S. A. Trugman, S. Redner, Aging and Immortality in a Cell Proliferation Model, accepted in *J. Theor. Biol.* (2007).
32. B. Mihaila, S. Gaudio. K.S. Bedell, K.B. Blagoev, E. Timmermans, Acoustic attenuation rate in the Fermi-Bose model with Finite-range fermion-fermion interaction, *Phys. Rev.* A75, 013603 (2007).

Edited Books:

“Strongly Coupled Coulomb Systems 97”, G. Kalman, M. Rommel, and K.B. Blagoev (eds.), (Plenum, 1998).

C. Research Support.ngoing Research Support"

Project Number/PI: Krastan B. Blagoev
 Funding Source: DOE/The MIND Institute
 Title of Project: "Neuronal Currents Detection in Humans Using MRS"
 Time Period: 1/1/2006-5/1/2008
 Role in Project: PI
 Major Goal: Evoked response currents detection in human primary visual cortex
 Using single voxel MR spectroscopy

Project Number/PI: U2006A168/ Krastan B. Blagoev
 Funding Source: Center for Integrative Nanotechnologies (CINT)
 Title of Project: "Investigating Teomere Structure and Function byt Atomic Force Microscopy and Fluorescence Microscopy"
 Time Period: 1/1/2007-7/1/2008
 Role in Project: PI
 Major Goal: Investigate the chromosome protection structures that telomeres form on both ends of the chromosome in human cells.

Project Number/PI: LANL-LDRD-DR/Darryl Smith
 Funding Source: Los Alamos National Laboratory Directed Research Office
 Title of Project: "New Materials for Radiation Detection"
 Time Period: 10/1/2005 – 10/1/2008
 Role in Project: co-PI
 Major Goal: Develop new materials for new radiation detectors.

Completed Research Support

Project Number/PI: LANL-NMSUKrastan B. Blagoev
 Funding Source: LANL-NMSU Memorandum of Understanding
 Title of Project: "Integrated EEG and Brain Mapping for Brain Machine Interface in Security Monitoring"
 Time Period: 10/1/2005-10/1/2006
 Role in Project: PI
 Major Goal: Develop a multimodal integration technique and study the feasibility of using it for training security personnel.

Project Number/PI: LANL-LDRD-DR/Darryl Smith
 Funding Source: LANL-NMSU Memorandum of Understanding
 Title of Project: "Spintronics"
 Time Period: 10/1/2005-10/1/2006
 Role in Project: co-PI
 Major Goal: Model the electron magnetization transport in organic materials and the transport across metal-semiconductor interfaces.

Project Number/PI: Krastan B. Blagoev
Funding Source: Institute for Complex Adaptive Matter (ICAM)
Title of Project: "Application of Condensed Matter Physics Techniques to Biological Physics Problems",
Time Period: 8/1/2000-6/1/2002
Role in Project: PI
Major Goal: Apply techniques from condensed matter physics to study the conductivity of DNA.

Project Number/PI: LANL-LDRD-ER/Krastan B. Blagoev
Funding Source: Los Alamos National Laboratory Exploratory Research Office
Title of Project: "Revolutionary techniques for large data sets analysis"
Time Period: 6/1/2002-10/1/2003
Role in Project: PI
Major Goal: Develop model dependent as well as model independent techniques for data mining.