

# Grady Price Blount

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## Education:

Harvard University, Cambridge, Massachusetts, Graduate School of Education, 2005.

*Management Development Program*

Arizona State University, Tempe, Arizona, Ph.D., Planetary Geology, 1988.

*Dissertation: Regional Aeolian Dynamics from Remote Sensing: Origin of the Gran Desierto, Sonora, Mexico*

Sul Ross State University, Alpine, Texas, M.S., Geology, 1985.

*Thesis: Interpretation of Shuttle Multispectral Infrared Radiometer Data for a Portion of Trans-Pecos Texas*

Corpus Christi State University, Corpus Christi, Texas, B.S. Geology, 1982.

*Senior Project: Historical Changes in the Morphology of Corpus Christi Bay since 1540*

## Academic Positions Held:

2006-present **Angelo State University:**

Dean, College of Sciences and Professor of Geology; Academic supervision of six departments and  $\approx$ 80 employees in Departments of Agriculture, Biology, Chemistry & Biochemistry, Computer Science, Mathematics, and Physics. Created new College of Nursing and Allied Health in 2009. Planning, organization, and direction of work for academic department heads and support staff; provide direction on administrative and academic affairs including budgeting, planning, goal setting, curriculum and program development, personnel, class scheduling, and policy interpretation.

1993-2006

**Texas A&M University-Corpus Christi:**

Assistant Vice-President for Research and Associate Graduate Dean (2004-2006);

Coordination of institutional doctoral-comprehensive initiative. Accreditation support for graduate programs and Program Reviews. Centers and Institutes coordination. Other duties supporting 27 master's degree programs and 4 doctoral programs. Coordination of Ph.D. program in *Coastal and Marine System Science*.

Chair (1995-2006) of the Department of Physical and Life Sciences. Operation and administration of an interdisciplinary group serving more than 90 faculty and staff with 1,200 majors in eight undergraduate and graduate degrees. Budgeting, personnel evaluations, operations, policy implementation, and leadership initiatives.

Professor (1998-2006) of Environmental Science and Geology. Department of Physical and Life Sciences; Undergraduate and graduate classroom teaching. Advising, community outreach, and externally-funded scholarly activities.

Associate Professor (1993-1998).

1988-1993

**The University of North Dakota:**

Associate Professor (1991) of Space Studies, University of North Dakota, Grand Forks, North Dakota. Upper division and graduate classroom teaching at Grand Forks, Grand Forks Air Force Base, and Minot Air Force Base campuses. *Earth System Science* initiative. Space Grant College satellite coordinator.

### Professional Training:

- 2005 & 2008 Delegate to the Annual Meeting of the *Commission on Colleges*, Southern Association of Colleges and Schools, Atlanta, GA. and San Antonio, TX.
- 2008 Participant, Financial Oversight of Credit Union Fiscal Operations, Credit Union National Association, San Antonio, TX.
- 2008 Participant, Institute on Quality Enhancement and Accreditation, *Commission on Colleges*, Southern Association of Colleges and Schools, Orlando, FL.
- 2008 Incident Command Systems (ICS-100) and National Incident Management System (IS-700), Federal Emergency Management Agency.
- 2004 *Strengths Quest*, The Gallup Organization
- 1998-2003 *Employee Evaluation and Goal Setting, Inventory Control and Purchasing, Professional Ethics*, Texas A&M University System

### Other Professional Positions:

- 2003-2006 **Harte Research Institute for Gulf of Mexico Studies:**  
Management Team Member; operational administration of \$46M endowment creating a new center of excellence for marine studies and associated Ph.D. program.
- 2003-2006 **National Spill Control School:**  
Executive Director of the congressionally-mandated center providing professional training for first responder HAZMAT operations.
- 1986-88 **Arizona State University:**  
Research Associate, Planetary Geology Group, Tempe, Arizona. Field and lab research on Mars analog terrains.
- 1985 **The University of Texas at El Paso:**  
Graduate Teaching Assistant, Dept. of Geology, Responsible for teaching lab sections of Physical Geology & Remote Sensing.
- 1983-85 **Sul Ross State University:**  
Graduate Research Assistant, Alpine, Texas. Field analysis and creation of orbital spectral libraries of major geologic units. Sports Information Director for Lobos athletic programs.
- 1971-82 **KNOW Radio, KEYS Radio, and KRIS Television:**  
Broadcast Journalist (radio and television), Austin and Corpus Christi, Texas.  
Creator of the *StarDate* radio program. Chief: Wendell Mayes Capitol Bureau, Served twice as Vice-President of the *UPI Broadcasters Association of Texas*.  
Science Correspondent for the *RKO Radio Network* during first two launches of the Space Shuttle.

### Recent Professional Activities:

- Secretary, Texas Association of Deans of Liberal Arts and Sciences, 2009-2010
- Proposal Reviewer, Texas Space Grant Consortium, 2006-present.
- Campus Coordinator, *American Democracy Project*, Stewardship of Public Lands initiative, American Association of State Colleges and Universities, 2005-2006.
- Board of Directors, *Texas Space Grant Consortium*, 2004-present.

### **Additional Professional Activities:**

- Member, Angelo State University *SACS* (Accreditation) Advisory Team, 2008-2009
- Delegate, *Texas Higher Education Climate Summit*, National Council for Science and the Environment, The Woodlands, Tx., 2007.
- Advisory Committee, *Center for International Studies*, Angelo State University, 2007-present.
- External Review Board, National Science Foundation *STEP Program*, Texas A&M University-Kingsville, 2005-2007.
- Board of Directors, *South Texas Children's Museum* (Exploratorium venue), 2004-2006.
- Session Moderator, *Modeling and Decision Support for Environmental Systems* Conference, San Antonio, Texas, April 2005.
- Author, *Substantive Change Prospectus* for Texas A&M University-Corpus Christi, to the Southern Association of Colleges and Schools, 76 pp., 2005.
- Member, *Hallmarks of Excellence Task Force*, Policy Center for the First Year of College, American Association of State Colleges and Universities, 2003.
- Chair, Advisory Board, *Corpus Christi Museum of Science and History*, 2005-2006. Vice-Chair, 2003-2005.
- Member, *Academy for Educator Development*, Texas A&M System, 2000-2006.
- U. S. Representative, *Consortio Educativo para la Proteccion Ambiental*, Santiago, Chile, 1998; Brownsville, Texas, 2000.
- Advisory Committee Member to the Secretary of the Interior, *National Satellite Land Remote Sensing Data Archive*, 1997-2000.
- Liaison Member of the *Land Processes Distributed Active Archive Committee*, Earth Resources Observation Center, Sioux Falls, S.D., 1998-1999.
- Texas Space Grant Consortium *Remote Sensing and GIS Advisory Group*, 1995-2001.
- Research proposal reviewer: *NASA Planetary Geology & Geophysics Program*, 1996-2000.
- Member, *International Consultative Committee on Space Data Systems*, 1991-1995.

### **Professional Memberships:**

American Geophysical Union, Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Council of Colleges of Arts and Sciences, Texas Association of Deans of Liberal Arts and Sciences, Association of Mars Explorers, Union of Concerned Scientists, International Dark Sky Association, Association for Environmental Studies and Sciences.

### **Certifications and Licenses:**

Federal Emergency Management Agency (FEMA) Incident Command Systems (ICS-100) and National Incident Management System (IS-700); Texas CHL (semi-automatic), Bureau of Alcohol, Tobacco, Firearms, and Explosives *Type 3* federal firearm license, *Advanced Open Water Scuba* license, FCC Third Class Radiotelephone (with *Broadcast Endorsement*) and FCC *Advanced Class* radio licensee: KB5MP, Texas *Class C* Driver's License, B.S.A. Northern Lights Council *Trained Adult* certification.

### University Service Leadership:

- Chair, *West Texas Medical Associates Distinguished Lecture Selection Committee*, Angelo State University, 2006-present.
- Chair, *Distance Education Task Force*, Angelo State University, 2006-2007.
- Chair, *Evidentiary Hearing Committee on Faculty Grievances*, College of Arts and Humanities, A&M-CC, 2004-05.
- Chair, Search Committee, A&M-CC *Vice-Provost and Associate Vice-President*, 2001; *Graduate Dean*, 2000.
- Campus Coordinator, *Teresa Heinz Environmental Scholarships*, 2001-2006.
- Chair, *Faculty Core Curriculum Committee (FC<sup>3</sup>)*, 1999-2000 (interim Chair, 1998).

### Civic, Professional and University Service:

- Member, Board of Directors, Concho Educator's Federal Credit Union, 2008-present.
- Member, *A&M-CC Academic Technology Council*, 2005-2006.
- Member, *A&M-CC Research and Scholarly Activities Council*, 2001-2006.
- Director, NASA Translingual Earth System Science Education Center, 1998-2001.
- Member, A&M-CC *Distance Education Council*, 1999-2002.
- A&M-CC Women's Center: Vice-Chair of Executive Committee, 1995-98; member of Board of Directors, 1995-2000.
- Member, A&M-CC *Faculty Core Curriculum Committee*, 1995-1997.
- Summer Lecturer (with Duran and Sadvoski) for A&M-CC *Project Earth: Mathematics Integration Laboratory* for public middle school teachers, 1995-1998.
- Faculty Sponsor, *Islanders Across America* student disaster relief volunteers, 1997.
- Organizing Committee, Padre Island National Seashore *Earth Day* activities, 1995-97.
- Textbook Reviewer: Environment: The Science Behind the Stories, 2<sup>nd</sup> ed., Peterson, 2005  
Living in the Environment, 12<sup>th</sup> ed., Brooks/Cole, 1999  
Environmental Science-Earth as a Living Planet, 2<sup>nd</sup> ed., Wiley, 1997  
The New Solar System, 2<sup>nd</sup> ed., Sky Publishing, 1996  
GIS in The Geosciences, John Wiley & Sons, 1995  
The Realm of the Universe, Saunders College Publishing, 1995.
- College of Science and Technology *Promotion and Tenure Policy-Writing Committee*, 1996.
- *Environmental Geoscience presentations to PEMEX and Universidad Juarez Autonomo de Tabasco*, Villa Hermosa, Tabasco with goal of establishing an off-site M.S. degree program, 1996.
- Member, *Faculty Senate* representing the College of Science & Technology, 1994-96.
- Member, *Faculty Senate*, representing the Center for Aerospace Sciences, University of North Dakota *Faculty Senate*, 1992-1993.
- Webelos Den Leader, *Northern Lights Council*, BSA, 1989-1993.
- Candidate for *U.S. House of Representatives* from North Dakota, statewide race, 1992.
- Lecturer, Kuwaiti National Science Foundation *Extension Course on Sand Transport*, 1988;
- Peer reviewer for *Journal of Geophysical Research* and *Proceedings of the Lunar & Planetary Science Conference*, 1987-1990.
- Vice-President, UPI Broadcasters Association of Texas, 1978-81.

### Honors and Awards:

- First *Distinguished Faculty Achievement Award*, A&M-CC Alumni Association, 2000.
- First *Honorary Woman* award, A&M-CC Women's Center for Education and Service, 1999.
- Inducted: Sigma Xi, 1998
- NASA award for Excellence in Research, 1996.
- Awarded academic tenure at A&M-CC, 1996
- NASA awards for Excellence in Research, Excellence in Curriculum Development; and Excellence in Outreach (*Project Earth*), 1995.
- Inducted: Sigma Gamma Epsilon (Earth Science Honor Society), 1984.
- Inducted: Epsilon Delta Pi (Computer Science Honor Society), 1981.
- *Best Newscast* award & *Best Feature* award, UPI Broadcasters Association of TX, 1978.

### Major Fundraising Activities:

- 2004-2006 Board of Directors, South Texas Children's Museum, Phase 1 (of four) completed. \$35M project total. Estimated completion ~2009.
- 1991-93 NASA, Proposal Team Member to create the North Dakota Space Grant Consortium, Three-year joint partnership contract for \$675K.
- 1992 Shell Oil Company, Proposal Team Member for Cray XMP supercomputer, University of North Dakota *Earth System Science Institute*, \$12.5M.
- 1988 U.S. Department of Agriculture, Proposal Team Member for congressional appropriation to create an *Earth System Science Institute*. \$8.4M.

### Grants & Funded Research:

- 2009 Research Development Fund, PI, Building a Molecular Biology and Biomedical Science Research Capability, \$9,008.
- 2008-09 Office of Naval Research, Co-PI (with Sauncy and Urbanzyk) for Electromagnetic and Crystallographic Characterization of Naturally-Occurring Zeolites with an Emphasis on Passive Detection and Shielding of Undersea Vehicles, \$300,000.
- 2007-08 National Science Foundation, Co-PI (with Poppeliers and Satterfield) for High Performance Computing for Undergraduate Geoscience Research, \$51,000.
- 2003-06 National Science Foundation, Co-PI (with Silliman et al.) for Cabeza de Vaca Earthmobile Program, \$580,868
- 2005 Texas Research Development Fund, PI, Startup Initiatives in the Physical and Life Sciences, \$164,250.
- 2000-03 NASA Institutional Research Award, Co-PI (with Steidley et al.): Building an Interdisciplinary Research Infrastructure in Applied Computer Science, Geographic Information Science, Engineering Technology, and Mathematics, \$1,920,367.
- 2001-02 Nueces County Health Department, Project Director for Vector Abatement Mapping and Analysis, \$19,167.
- 2001 ASARCO, Co-PI (with Smith et al.) for Implementation of Management Plans for the Up River Road Conservation Easement, \$102,000
- 2000 NASA Earth Science Enterprise Education Program, PI, The Translingual Earth System Science Education Center, \$154,540.

### Grants & Funded Research (continued):

- 1999 A&M-CC Office of the Vice-President for Finance and Administration, Co-PI (with Hickman) for A Wildlife Management Plan for Ward Island, \$54,000.
- 1999 ASARCO, PI (with Smith et al.) for Biodiversity Assay, Land Use Survey and Proposed Management Plan for the Bath/Grant/Kelly Property, \$164,268.
- 1998 Consorcio Educativo para la Protección Ambiental, PI for Translingual Environmental Science Education; \$5,000.
- 1994-97 NASA Joint Venture (JOVE) Research Program, Principal Investigator for Calibration and Data Analysis for the Deep Space Program Science Experiment (aka *the Clementine mission*); Three year contract for \$110,000.
- 1996 Mexican Petroleum Institute, Co-Investigator (with Rodriguez and Jeffress) for A Regional Environmental Assessment of the State of Tabasco from Remote Sensing Data, \$225,000.
- 1995 Office of Naval Research, Co-Investigator (with Price and Jeffress) for Laboratory Instrumentation for Geographic Information Sciences, \$296,109 block grant.
- 1995 Eisenhower Foundation, Co-Investigator (with Duran) for Mathematics Integration Laboratory: Project Earth, \$68,000.
- 1994 A&M-CC Organized Research Grants, Principal Investigator for Installation and Operation of a Geosynchronous Operational Environmental Satellite Receiving Station, \$6,250.
- 1994 Ed Rachael Foundation, Principal Investigator for Satellite Image Acquisition for the Galvan Ranch Field Site, \$2,000.
- 1993 National Science Foundation, Principal Investigator for An Imaging Laboratory Curriculum in the Earth and Planetary Sciences, \$48,000.
- 1992-93 NASDA (Japanese Space Agency), Co-Investigator for Preliminary Data Analysis from the JERS-1 Imaging Radar, \$Data Grant
- 1990-92 National Center for Resource Innovation, Principal Investigator for TM analysis of prairie pothole variability, \$6,000.
- 1990 NASA Planetary Geology Field Experiment, Consultant for Correlation of mineralogical, textural, sorting, packing, mantling and slope variables with full-spectrum (visible to radar) multivariate image analysis in the Mojave Desert.
- 1990 UND Faculty Research travel grant to attend First International Conference on the Environment of Mars, Sopron, Hungary, \$1,000

### Recent Publications and Refereed Presentations:

- Dyess, Jonathan and Blount, G.P., Field Mapping and Regional Remote Sensing of the Buck Hill Volcanic Group, Trans-Pecos Texas, Geological Society of America, Abs. with Programs Vol. 41, No. 7, 2009.
- Krieg, M. and Blount, G., The GulfBase Image Mosaic Project, Annual Conference of the American Society for Photogrammetry and Remote Sensing, May 2005.
- Billeaux, D., Blount, G.P., Logsdon, S., Meyer, P., Quiroz, A., Heath, S., and Jozwiak, J., Writing Across the Curriculum and First-Year Learning Communities, presented at the 6th National WAC Conference, Rice University, March 2002.
- Blount, Grady Price, Holm, T. and Faundeen, J., Quaternary Park: Retrieval of Lost Satellite Images from the late 20<sup>th</sup> Century, *Proceedings from the Annual Conference of the American Society for Photogrammetry and Remote Sensing-2001*, St. Louis, April 2001.

## Other Publications and Invited Presentations:

- Gabryonowitz, J., P. Adler, M. Baumgardner, G. Bethel, G. Blount, A. Budge, J. Copple, K. Davidson, K. Green, J. Harroun, T. Holm, A. Krygiel, J. MacDonald, G. Robinson, E. Shaw, P. Tessar, D. Williams, Access to Restricted Data, *Report to the Secretary of the Interior*, National Satellite Land Remote Sensing Data Archive Advisory Committee, 6 pp., 2000.
- Blount, G.P., Front Cover Image (from Ikonos II), *Surveying and Land Information Systems*, v. 60, n. 2, August 2000.
- Blount, G.P., Scenters-Zapico, J. and Dew, D., Discourse Plazas: A Blooming Large Scale Initiative, presented at the conference on Evolution, Revolution and Implementation: Computers and Writing for Global Change, Texas Women's University, May 2000.
- Blount, G.P., Is NASA a Religion? *First International Conference on Children's Rights & Education for the 21st Century*, Texas A&M University-Corpus Christi, July 2005.
- Blount, Grady and Smith, E., and Dilworth, S.J., Land Use and Biodiversity Assay of ASARCO Property, A&M-CC Center for Coastal Studies Report #9908, 51 pp., 1999.
- Rodriguez, A., Blount, G., and Jeffress, G., Evaluacion Ambiental Regional de los Cambios en el patron de Flujo de Agua Superficial en al Estado de Tabasco, Mexico, A&M-CC Center for Coastal Studies Report #9808, 27 pp., 1998.
- Blount, G., Towards a Trans-Boundary Gulf of Mexico Initiative, report to Texas General Land Office, 1997.
- Blount, G., review of Verbyla, D., Satellite Remote Sensing of Natural Resources, in *Surveying and Land Information Systems*, v. 57, n. 1, p. 59, 1997.
- Blount, G., Space Science Outreach and Education at A&M-CC, presented at the NASA Joint Venture Conference, Jet Propulsion Laboratory, CA., 1997.
- Price, K. and G. Blount, Laboratory Manual for Environmental Science, Kendall/Hunt, 97 p., 1997.
- Blount, G., McEwen, A., and Robinson, M., Reconnaissance Results from the Clementine Mission: A First Look at the Lunar North Pole, presented at the NASA Joint Venture Conference, Monterey, CA., July 5-8, 1995.
- Blount, G., Design Specifications for a Mars Multispectral Microscope, *Mars Surveyor Workshop*, NASA Jet Propulsion Laboratory, CA., 1994.
- Blount, G., South Texas Vegetation Classification Plan, in Hegwood, D., ed., *Feasibility Study of Developing a South Texas Space Science and Remote Sensing Test Area*, Texas Space Grant Consortium, 154 p., 1994.
- Wood, C. and G. Blount, After Magellan: Design Considerations for the next generation of Venus Spacecraft, *Lunar and Planetary Science Conf. XXIII*, part 1, 1992.
- Blount, G., Quaternary Depositional History of a Southwestern Core Desert, presented to the annual meeting of the Quaternary Research Center, Univ. of Washington, Seattle, WA., 1991.
- Blount, G., Quaternary Depositional History of a Southwestern Core Desert, presented to the annual meeting of the Quaternary Research Center, Univ. of Washington, Seattle, WA., 1991.
- Blount, G., Spectral mixing models for quantitative surface mapping, *Symposium on Geographic data processing*, Proc., N.D. Academy of Sciences., Minot, ND, 1991.
- Blount, G., Multivariate analysis of aeolian surfaces: An aide to regional climatic interpretation, presented at the *First International Conference on the Environment of Mars*, Sopron, Hungary, January 1990.

## Other Publications and Invited Presentations:

- Blount, G., Smith, M.O., Adams, J.B. and Greeley, R., Regional aeolian dynamics and sand mixing in the Gran Desierto: Evidence from Landsat Thematic Mapper images, *Journal of Geophysical Research*, v. 95, p. 15463-15482, 1990.
- Blount, G. and Lancaster, N., Development of the Gran Desierto sand sea, *Geology*, v.18, p. 724-728, 1990.
- Blount, G., Greeley, R., Christensen, P.R., Lancaster, N., Adams, J. and Smith, M.O., Determination of regional surficial geology for aeolian terrains utilizing a linear mixing algorithm for remote sensing data, *Reports of the Planetary Geology and Geophysics Program*, 1988, NASA TM-4130, p. 255-256, 1989.
- Blount, G., Greeley, R., Christensen, P.R. and Lancaster, N., Interpreting the geologic history of aeolian bodies from remote sensing data, presented at the annual meeting of the L.P.S.C., Houston, Texas, Lunar and Planetary Science Conf. XIX, part 1, 104-105, 1988.
- Blount, G., Regional Aeolian Dynamics from Remote Sensing: Origin of the Gran Desierto, Sonora, Mexico, Ph.D. dissertation, Arizona State University, Tempe, Arizona, 227 p., 1988.
- Blount, G., Greeley, R., Christensen, P.R. and Lancaster, N., Semi-quantitative remote sensing of aeolian terrains using a linear mixing model, *Reports of the Planetary Geology and Geophysics Program*, 1987, NASA TM-4041, p. 273-274, 1988.
- Blount, G., Evidence for the Pleistocene migration of the Colorado River delta, *Symposium on the Geology and Mineral Deposits of Sonora II*, Instituto de Geologia-Universidad de Sonora, Asociacion de Ingenieros de Minas - Sonora, 1988.
- Lancaster, N. and Blount, G., Episodic eolian deposition in the Gran Desierto of Mexico: Super bounding surfaces in the making, *abs. 41st Southwestern Geology Symposium*, Flagstaff, Arizona, p. 41, 1988.
- Blount, G. and Greeley, R., Lunar Rotation and the Distribution of Dark-Halo Pyroclastic Deposits: A Cause for Asymmetric Ejecta Patterns, *Lunar and Planetary Science Conf. XVIII*, part 1, 91-92, 1987.
- Blount, G., Greeley, R., Christensen, P.R. and Arvidson, R., Aeolian Mixing and the Identification of Active Sand Surfaces on the Earth and Mars, presented at the annual meeting of the L.P.S.C., Houston, Texas, Lunar and Planetary Science Conf. XVIII, part 1, 95-96, 1987.
- Blount, G., Greeley, R. and Christensen, P.R., Regional Aeolian Dynamics from Remote Sensing: A test case for Mars Observer, presented at the annual meeting of the G.S.A., Phoenix, Az., *Geol. Soc. Amer., Abs. with Prog.*, v. 19, n. 7., 592, 1987.
- Blount, G. and Greeley, R., Correlated Noise as a Planetary Image Enhancement Technique, presented at the annual meeting of the Division of Planetary Sciences-American Astronomical Society, *Bull. Amer. Astronomical Soc.*, v. 19, n. 3, 847, 1987.
- Blount, H.G., Percepcion remota de el Gran Desierto, Sonora, in: International Guide to Research on Mexico, Univ. of California-San Diego / El Colegio de la Frontera Norte-Tijuana, 665-666, 1987.
- Blount, G., Barbera, P., Pappalardo, R., Posin, S. and Watts, A., The Occurrence of Seismically-Disrupted Antipodal Terrains, *Lunar and Planetary Science Conf. XVIII*, part 1, 93-94, 1987.
- Blount, H.G., II, Greeley, R., Christensen, P.R. and Arvidson, R., Bright Sand/Dark Dust: The Identification of Active Sand Surfaces on the Earth and Mars, *Reports of the Planetary Geology and Geophysics Program*, 1986, NASA TM-89810, 257-258, 1987



### Other Publications and Invited Presentations:

- Blount, H.G., II and Whitford-Stark, J.L., Identification of geological units representing the spectra obtained from the Shuttle Multispectral Infrared Radiometer for a portion of the Trans-Pecos, Texas, in Reports of the Planetary Geology and Geophysics Program, 1985, NASA TM-88383, 502-504, 1986.
- Marston, R.A. and Blount, H.G., II, Shuttle Imaging Radar coverage of southwest New Mexico, in Hoffer, J., ed., Geology of Southcentral New Mexico, El Paso Geological Society, 52-59, 1986.
- Blount, H.G., II, Greeley, R., and Christensen, P.R., Identification of Active Sand Surfaces: Earth and Mars, presented at the annual meeting of the G.S.A., San Antonio, Texas, Geol. Soc. Amer., Abs. with Prog., v. 18, n. 6., 544, 1986.
- Blount, H.G., II, An Interpretation of Shuttle Multispectral Infrared Radiometer Data for a portion of Trans-Pecos Texas, M.S. thesis, Sul Ross State University, 128 p., 1985.
- Blount, H.G., II, Space Based Exploration of the Big Bend, Chihuahuan Desert Research Institute, Chihuahuan Desert Discovery, 18, 4-7, 1985.
- Blount, H.G., II and Whitford-Stark, J.L., Analysis of SMIRR data for volcanic and sedimentary terraines of the Trans-Pecos, Texas, in Reports of the Planetary Geology and Geophysics Program, 1984, NASA TM-87563, 432-433, 1985.

### Graduate Thesis or Research Projects Supervised:

- Krieg, Melissa, *GulfBase Mosaic project: Landsat Thematic Mapper Composite of the Coastal Gulf of Mexico and GIS Viewer*, 31 pp., 2005.
- Johnson, Cassidy B., *The Effect of Changes in Gravity on Human TUR Cell Phagocytosis*, 74 pp., 2005.
- Iglesias, Claudia, *Laboratory Exercises in Earth System Science*, 102 pp., 2003.
- Weaver, Karen, *Pre-European Texas: Vegetation Change on the Palo Alto Battlefield National Historic Site*, 380 pp., 1999.
- Williams, Deidre D., *Recreational Beach Fill: Processes & Functional Design*, 265 pp., 1999.
- Cowart, R., *Surface Water Temperature Monitoring from Wesley-Seale Dam to Port Aransas Utilizing AVHRR Satellite Data*, 48 p., 1997.
- Martin, O. and K. Nolan, *GPS Rectification of TM Imagery for South Texas*, 22 p., 1997.
- Chambers, C., *Scale and Chaos in Global Models*, 72 p., 1992.
- Mino, T., *Solar Activity and its Effect on Terrestrial Communications*, 43 p., August 1991.
- Qualls, D., *Playa analysis utilizing the linear mixing model on Landsat 5 thematic mapper data*, 44 p., 1991.
- Wise, S.W., *Wetland Monitoring in the Prairie Pothole Region Using Linear Mixing Model Analysis*, 37 p. report and Pascal code, 1990.
- Mee, M., *Advanced Image Processing on Microcomputers: Implementations for 32-bit Color Display and Multivariate Image Analysis*, 60 p. report, manual and C code, 1990.
- Mackin, J. E., *System Design Evolution in Deep-Space Sensing Probes*, 42 p., 1990.
- Anderson, C., *Variations on Entry Parameters for Mars Aerobraking Maneuvers*, 65 p., 1990.
- Mani, M., *An application of the NDVI algorithm to North Dakota farmlands during the droughts of 1988 and 1989*, 37 p. report and FORTRAN code, 1990.
- Bieri, S.R., *Agricultural opportunities for the Institute of Earth System Science at the University of North Dakota*, 49 p., 1989.
- Kakadelis, S., *Space User Display Software (SPUDS) package*, 41 p. and Pascal code, 1989.

## Citation Index:

- Bartholomeus, H., Epema, G., and Schaepman, M., Determining Iron Content in Mediterranean Soils in Partly Vegetated Areas, using Spectral Reflectance and Imaging Spectroscopy, *Intl. J. of Applied Earth Observation and Geoinformation*, v. 9, n. 2, pp. 194-203, 2007.
- Kasper-Zubillaga, J.J., and Faustinos-Morales, R., Análisis por Microscopía Electrónica de Barrido de Granos de Cuarzo de Dunas Desérticas y Costeras, *Ciencias Marinas*, v. 33, n. 1, pp. 11-22, 2007.
- White, K., Walden, J., and Gurney, S.D., Spectral properties, iron Oxide Content and Provenance of Namib Dune Sands, *Geomorphology*, v. 86, n. 3-4, pp. 219-229, 2007.
- Kasper-Zubillaga, J.J., Zolezzi-Ruiz, H., Carranza-Edwards, A., Giron-Garcia, P., Ortiz-Zamora, G., and Palma, M., Sedimentological, modal analysis and geochemical studies of desert and coastal dunes, Altar Desert, NW Mexico, *Earth Surface Processes and Landforms*, v. 32, n. 4, pp. 489-508, 2007.
- Beveridge, C., Kocurek, G., Ewing, R.C. and Lancaster, N., Development of Spatially Diverse and Complex Dune-field Patterns: Gran Desierto Dune Field, Sonora, Mexico, *Sedimentology*, v. 53, n. 6, pp. 1391-1409, 2006.
- White, K. and Eckardt, F., Geochemical mapping of carbonate sediments in the Makgadikgadi basin, Botswana using moderate resolution remote sensing data, *Earth Surface Processes and Landforms*, v. 31, n. 6, pp. 665-681, 2006.
- Rodríguez-López, J.P., de Boer, P.L., Meléndez, N., Soria, A.R. and Pardo, G., Windblown desert sands in coeval shallow marine deposits: a key for the recognition of coastal ergs in the mid-Cretaceous Iberian Basin, Spain, *Terra Nova* v. 18 (5), pp. 314–320, 2006.
- Kasper-Zubillaga, J. J. and Carranza-Edwards, A., Grain size discrimination between sands of desert and coastal dunes from northwestern Mexico, *Revista Mexicana de Ciencias Geológicas*, v. 22, n. 3, pp. 383-390, 2005.
- Marin, L. Forman, S.L., Valdez, A., and F. Bunch, 20<sup>th</sup> Century dune movements Great Sand Dunes National Park, Colorado, and relation to drought variability, *Geomorphology*, 2004.
- Okin, G.S. and T.H. Painter, Effect of Grain Size in Remotely Sensed Spectral reflectance of Sandy Desert Surfaces, *Remote Sensing of Environment*, 89, 272-280, 2004.
- Bandfield, J.L., Rogers, D., Smith, M.D., and Christensen, P.R., Atmospheric correction and surface spectral unit mapping using Thermal Emission Imaging System data, *J. Geophysical research-Planets*, v. 109, n. E10: Art. No. E10008, 2004.
- Ramsey, M., Quantitative Geological Surface Processes Extracted from Infrared Spectroscopy and Remote Sensing, in *Infrared Spectroscopy in Geochemistry, Exploration Geochemistry, and Remote Sensing*, 234 pp., 2004.
- Pu, R., Xu, B., and P. Gong, Oakwood Crown Closure Estimation by Unmixing Landsat TM Data, *International Journal of Remote Sensing*, 24, 22, 4422-4445, 2003
- Wang, X., Dong, Z., Zhang, J., Qu, J., and A. Zhao, Grain Size Characteristics of Dune Sands in the central Taklimakan Sand Sea, *Sedimentary Geology*, 161, 1-14, 2003
- Fenton, L.K., Bandfield, J.L., and Ward, A.W., Aeolian processes in Proctor Crater on Mars: Sedimentary history as analyzed from multiple data sets, *Journal of Geophysical Research-Solid Earth*, 108 (E12), 5129, doi:10.1029/2002JE002015, 2003.
- Muhs, D.R., Reynolds, R.L., Been, J., Skipp, G., Eolian sand transport pathways in the southwestern United States: importance of the Colorado River and local sources, *Quaternary International*, 104: 3-18, 2003.

### Citation Index (continued):

- Foppa, N., Wunderle, S., and A. Hauser, Operational Snow Cover Estimation at Subpixel Scale using NOAA-AVHRR Data, Remote Sensing for Environmental Monitoring, *Proceedings of the SPIE*, v. 4886, 659-666, 2003.
- Mushtak, T. J., Hu, G. and Chen, J., Study of Sand Dunes and Their Effect on Desertification of Cultivated Lands in Shaanxi Province, China Using Remote Sensing Techniques, *China J. of Geosciences*, v. 13, no.3 P.234-239, 2002.
- Bullard J.E. and White K., Quantifying iron oxide coatings on dune sands using spectrometric measurements: An example from the Simpson-Strzelecki Desert, Australia, *Journal of Geophysical Research-Solid Earth*, 107 (B6): art. no. 2125, June 2002.
- Bandfield J.L., Edgett K.S., and Christensen P.R., Spectroscopic study of the Moses Lake dune field, Washington: Determination of compositional distributions and source lithologies, *Journal of Geophysical Research-Planets*, 107 (E11): art. no. 5092, Nov. 2002.
- Pease P.P. and Tchakerian V.P., Composition and sources of sand in the Wahiba Sand Sea, Sultanate of Oman, *Annals of the Association of American Geographers*, 92 (3): 416-434, Sept. 2002.
- White, K., Livingstone, I., Gurney, S., Dearing, J., and Bateman, M., Post-processing of mineral mixture maps for mapping surficial materials: the example of the Matmata loess, southern Tunisia, *International Journal of Remote Sensing*, 23 (15): 3091-3106. Aug. 10, 2002.
- Jabbar, M.T., Guangdao, H., and Jianguo, C., Study of Sand Dunes and their Effect on Desertification of Cultivated Lands in Shaanxi Province, China using Remote Sensing Techniques, *China J. of Geosciences*, v. 13, n. 3, pp. 234-239, 2002.
- Foppa, N., Wunderle, S., and A. Hauser, Spectral Unmixing of NOAA-AVHRR Data for Snow Cover Estimation, Proceedings: *EARSeL-LISSIG Workshop Observing our Cryosphere from Space*, Bern, 155-163, March 2002
- Carriquiry, J.D., Sanchez, A., and Camacho-Ibar, V.F., Sedimentation in the northern Gulf of California after cessation of the Colorado River discharge, *Sedimentary Geology*, 144 (1-2): 37-62 Special. Issue, SI Oct. 1, 2001.
- Malin, M.C., Bell, J.F., Calvin, W., Clancy, R.T., Haberle, R.M., James, P.B., Lee, S.W., Thomas, P.C., Caplinger, M.A., Mars Color Imager on the Mars Climate Orbiter, *Journal of Geophysical Research-Planets*, 106 (E8): 17651-17672, Aug. 25, 2001.
- White, K., Goudie, A., Parker, A., Al-Farraj, S., Mapping the geochemistry of the northern Rub' Al Khali using multispectral remote sensing techniques, *Earth Surface Processes and Landforms*, 26 (7): 735-748, July 2001.
- Bandfield, J.L., Christensen, P.R., and Smith, M.D., Spectral data set factor analysis and end-member recovery: Application to analysis of Martian atmospheric particulates, *Journal of Geophysical Research - Planet* 105: (E4) pp. 9573-9587, April 25, 2000.
- Pease, P.P., Bierly, G.D., Tchakerian, V.P., et al., Mineralogical characterization and transport pathways of dune sand using Landsat TM data, Wahiba Sand Sea, Sultanate of Oman, *Geomorphology*, 29: (3-4), pp. 235-249, Sept. 1999.
- Ramsey, M.S., Christensen, P.R., Lancaster, N., et al., Identification of sand sources and transport pathways at the Kelso Dunes, California, using thermal infrared remote sensing, *Geological Society of America Bulletin*, 111: (5), pp. 646-662, May 1999.
- Carriquiry J.D., and Sanchez, A., Sedimentation in the Colorado River delta and Upper Gulf of California after nearly a century of discharge loss, *Marine Geology* 158: (1-4), pp. 125-145, June 1999.

### Citation Index (continued):

- Ramsey, M.S. and Christensen, P.R., Mineral Abundance Determination: Quantitative Deconvolution of Thermal Emission Spectra, *Journal of Geophysical Research*, v. 103, n. 1, pp. 577-598, 1998.
- White, K., Walden, J., Drake, N., Eckardt, F., and Settle, J., Mapping the Iron Oxide Content of Dune Sands, Namib Sand Sea, Namibia, using Landsat Thematic Mapper data, *Remote Sensing of Environment*, v. 62, n. 1, pp. 30-39, 1997.
- Felger, R.S., Broyles, B., Nabhan, G.P., and Evans, L., Our grand desert: A gazetteer for northwestern Sonora, southwestern Arizona, and northeastern Baja California, *J. of the Southwest*, v. 39, n. 3-4, pp. 703-856, 1997.
- Sept, M.L., Mapping and detecting change in the aeolian sand deposits of Southern Alberta using wet year-dry year using Landsat Thematic Mapper imagery, M.S. thesis, University of Alberta, 85 p. 1997.
- Tompkins, S., Mustard, J.F., Pieters, C.M., and Forsyth, D.W., Optimization of Endmembers for Spectral Mixture Analysis, *Remote Sensing of Environment*, v. 59, n. 3, pp. 472-489, 1997.
- Lancaster, N., *Geomorphology of Desert Dunes*, Routledge, 290 p., 1996.
- Merenyi, E., Singer, R.B., and Miller, J.S., Mapping of Spectral Variations on the Surface of Mars from High Spectral Resolution Telescopic Images, *Icarus*, v. 124, n. 1, pp. 280-295, 1996.
- Winspear, N.R. and Pye, K., Sand Supply to the Algodones Dunefield, South-Eastern California, USA, *Sedimentology*, v. 42, n. 6, pp. 875-891, 1995.
- Ritter, D.F., Kochel, R.C., and Miller, J.R., *Process Geomorphology*, Brown, 546 p., 1995.
- Farrand, W.H. and Harsanyi, J.C., Discrimination of Poorly Exposed Lithologies in Imaging Spectrometer Data, *Journal of Geophysical Research*, v. 100, n. E1, pp. 1565-1578, 1995.
- Edgett, K., Ramsey, M., and Christensen, P., Aeolian erosion, transport, and deposition of volcanoclastic sands among the shifting sand dunes, Christmas Lake Valley, Oregon: TIMS image analysis, *Summaries of the Fifth Annual JPL Airborne Earth Science Workshop*, v. 2: TIMS Workshop, pp 13-16 (SEE N95-33789 12-42); 1995.
- Ray, T.W. and Murray, B.C., Remote Monitoring of Shifting Sands and Vegetation Cover in Arid Regions, in *Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation.*, International v. 2, pp. 1033-1035, 1994.
- Farrand, W.H., Singer, R.B., and Merenyi, E., Retrieval of Apparent Surface Reflectance from AVIRIS Data - A Comparison of Empirical Line, Radiative-Transfer, and Spectral Mixture Methods, *Remote Sensing of Environment*, v. 47, n. 3, pp. 311-321, 1994.
- Smith, M.O., Adams, J.B., and Sabol, D.E., Mapping Sparse Vegetation Canopies, in *Imaging Spectrometry for Environmental Observations*, Springer Netherlands, pp. 221-235, 1994.
- Edgett, K.S. and Blumberg, D.G., Star and Linear Dunes on Mars, *Icarus*, v. 112, n. 2, pp. 448-464, 1994.
- Murphy, R.J., and Wadge, G., The Effects of Vegetation on the Ability to Map Soils Using Imaging Spectrometer Data, *International Journal of Remote Sensing*, v. 15, n. 1, pp. 63-86, 1994.
- Lancaster, N., Arid Geomorphology, *Progress in Phys. Geog.*, v. 16, n. 4, pp. 489-495, 1992.
- Lancaster, N., Relations Between Dune Generations in the Gran Desierto of Mexico, *Sedimentology*, v. 39, n. 4, pp. 631-644, 1992.

### Citation Index (continued):

- Lancaster, N., Gaddis, L., and Greeley, R., New Airborne Imaging Radar Observations of Sand Dunes-Kelso Dunes, *Remote Sensing of Environment*, v. 39, n. 3, pp. 233-238, 1992.
- Paisley, E.C., Lancaster, N., Gaddis, L.R., and Greeley, R., Discrimination of Active and Inactive Sand from Remote Sensing-Kelso Dunes, Mojave Desert, California, *Remote Sensing of Environment*, v. 37, n. 3, pp. 153-166, 1991.
- White, K., Remote Sensing, *Progress in Physical Geography*, v. 15, n. 1, pp. 71-76, 1991.
- Lancaster, N., Paleoclimatic Evidence from Sand Seas, *Paleogeography, Paleoclimatology, and Paleoecology*, v. 76, n. 3-4, pp. 279-290, 1990.
- MacDonald Detwiller Associates, distribution of images in satellite imaging brochure, 1990.
- Lancaster, N., The Dynamics of Star Dunes, *Sedimentology*, v. 36, pp. 273-290, 1989.
- Tellez, J.R. and Whitford-Stark, J.L., SMIRR Data Analysis of West Texas: Enhancement of Lithologic Signatures, *Lunar and Planetary Science Conference*, v. 19, pp. 1187-1188, 1988.

# Teaching Evaluations for Grady Price Blount

**Student Evaluations from:** Astronomy of the Solar System (1000-level)  
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