

## CURRICULUM VITAE

### GENERAL DATA

Name: Ashanti Johnson Pyrtle  
Employer: University of South Florida (USF), College of Marine Science  
Present Rank: Assistant Professor  
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### EDUCATION

<u>Institution</u>	<u>Field of Study</u>	<u>Degree</u>	<u>Date</u>
Texas A&M University (TAMU)	Chemical Oceanography	Ph.D.	1999
Texas A&M University-Galveston (TAMUG)	Marine Science	B.S.	1993

### PROFESSIONAL CERTIFICATIONS

<u>Institution</u>	<u>Certificate Program</u>	<u>Date</u>
Environmental Systems Research Institute DuPree College of Management, Georgia Institute of Technology (Georgia Tech)	Spatial Hydrology Using ArcView GIS Institute for Project Management	2002 2001
DuPree College of Management, Georgia Tech Environmental Systems Research Institute	Program for Technical Managers Introduction to GIS	2001 2000

### WORK EXPERIENCE

USF: College of Marine Science, Assistant Professor (2003 – present)  
Georgia Tech: Office of the President, FACES Program Coordinator (2001 – 2003), School of Earth and Atmospheric Sciences, Postdoctoral Fellow (1999 – 2001), Research Scientist II (2001 – 2002), Adjunct Research Scientist (2002 – 2003)  
Savannah State University (SSU): Marine Science Research Center, Postdoctoral Research Associate (2000 – 2001), Marine, Environmental Science & Biotechnology, Assistant Research Professor (2001)  
University of Michigan: US NASA SHARP, Assistant Coordinator (1999)  
Exxon Production Research Co.: Geochemist (1997 – 1998)  
Texas A&M University: Department of Oceanography, Graduate Teaching Assistant (1997)  
Texas Instruments, Inc.: Polymer Chemist (1990 – 1994)

### TEACHING EXPERIENCE

Readings in Radiogeochemistry I, USF, 2006  
Readings in Radiogeochemistry II, USF, 2006  
Biogeochemical Sensors-Development & Application, USF (cross-listed in Colleges of Marine Science and Engineering, co-taught with Dr. Shekhar Bhansali, Associate Professor of Electrical Engineering), 2005, 2006  
Science Technology Engineering and Mathematics (STEM) Professional Development, USF (cross-listed in Colleges of Marine Science and Engineering, co-taught with Dr. Shekhar Bhansali, Associate Professor of Electrical Engineering), 2005, 2006

Aquatic Radiogeochemistry, USF, 2004, 2005  
Scientist in the Classroom, (co-taught with Teresa Greely and Angela Lodge), 2004, 2005  
Teaching Marine Science I, USF (co-taught with Teresa Greely and Angela Lodge), 2004, 2005  
Teaching Marine Science II, USF (co-taught with Teresa Greely and Angela Lodge), 2004, 2005  
Introduction to Aquatic Chemistry, USF, 2004  
Introduction to Oceanography Laboratory (honors section), TAMU, 1998

## **AREAS OF SPECIALIZATION**

Radiogeochemistry, aquatic geochemistry, professional development of graduate students, science and engineering diversity initiatives

## **GRANTS**

### **Funded**

- “Understanding Profiles of Tampa Bay’s Aquatic Quality,” EPA Center for Science and Policy Application for Coastal Environments, **\$113,920**, 10/06-02/08 (PI’s-K. Carvalho-Knighton, A. Pyrtle)
- “Past and Present Water Quality in Florida Coastal Waters,” EPA Center for Science and Policy Application for Coastal Environments, **\$97,991**, 10/05-09/08 (PI’s- J. Smoak, M. Riedinger-Whitmore, and A. Pyrtle)
- MS PHD’S Classroom and Community Engagement and Mentoring Program: A Track 1 Project, NSF Geoscience Directorate, **\$77,018**, 06/07-05/09, (Pyrtle-PI, M. Butler-Co-PI, V. Fueyo-Co-PI, V. Williamson-Whitney-Co-PI)
- “MS PHD’S in Earth System Science Professional Development Program: A Track 2 Full-Scale Project,” NSF Geoscience Directorate, **\$ 1,286,217**, 07/05-07/10, (A. Pyrtle-PI)
- “Florida-Georgia LSAMP Bridge to the Doctorate Project III,” NSF Human Resources Directorate, **\$987,000**, 08/06-07/08, (A. Pyrtle-PI, Co-PI- S. Bhansali)
- “Florida-Georgia LSAMP Bridge to the Doctorate Project II,” NSF Human Resources Directorate, **\$987,000**, 08/05-07/07, (A. Pyrtle-PI, Co-PI- S. Bhansali)
- “Florida-Georgia LSAMP Bridge to the Doctorate Project,” NSF Human Resources Directorate, **\$987,000**, 08/04-07/06, (A. Pyrtle-PI, Co-PI- S. Bhansali)
- “Vieques Puerto Rico Field Station Implementation Project,” NSF Human Resources Directorate, **\$7,750**, 06/06-06/07, (A. Pyrtle-PI)
- “Vieques Puerto Rico Field Station Initiation Project,” NSF Human Resources Directorate, **\$7,200**, 06/05-06/06, (A. Pyrtle-PI)
- “Digital Library for Earth System Science Virtual Community,” NSF Division of Earth Sciences, **\$18,290**, 2/05-02/07, (A. Pyrtle-PI)
- “Florida West Coast Regional National Ocean Science Bowl,” NSF Ocean Sciences, **\$15,000**, 10/05-8/06, (A. Pyrtle-Co-PI, PI- T. Greely)
- “Alfred P. Sloan Foundation Minority Doctoral Scholars Program,” Alfred P. Sloan Foundation, \$99,960 (08/04-renewable annually) (PI)
- “MS PHD’S in Earth System Science Professional Development Program,” NSF Geoscience Directorate, **\$262,000**, 08/04-08/06, (A. Pyrtle-PI)
- “The DLESE 2005 Annual Meeting,” NSF Division of Earth Sciences, **\$229,856**, 2/05-02/06, (A. Pyrtle-PI, Co-PI- T. Greely)
- “GK-12 OCEANS: Ocean sCientist Educator pArtnerships eNhancing Science”, NSF Division of Graduate Education, **\$1,642,879**, 01/03-12/06, (A. Pyrtle-Co-PI, T. Greely-PI)

- “Minorities Striving and Pursuing Higher Degrees of Success (MS PHD’S) In Ocean Sciences: A Pilot Project,” NASA Headquarters Office of Earth Science, **\$10,379**, 09/03-08/05, (A. Pyrtle-PI)
- “Minority Students Pursuing Higher Degrees of Success in Ocean Sciences: Virtual Community Building Project,” NASA Headquarters Office of Earth Science, **\$38,943**, 09/03-08/05, (A. Pyrtle-PI)
- “Faculty International Travel Grant,” Univ. of South Florida New Researcher Grant Competition, **\$2,500**, 05/05-05/06 (A. Pyrtle-PI)
- “Minority Student Program for A Sea of Change: JGOFS Accomplishments and the Future of Ocean Biogeochemistry Conference,” NASA Education Program Office of Earth Science, **\$112,400**, 07/02-08/05, (A. Pyrtle-PI)
- “HBCU Summer Intern Program,” NSF Human Resources Directorate, **\$3,750**, 06/04-06/05, (A. Pyrtle-PI)
- “Preliminary Investigation of Radionuclide Distribution, Transport and Behavior in the Savannah (Georgia) Estuary,” NSF Chemical Oceanography, **\$7,423**, 01/01-02/04, (A. Pyrtle-PI)
- “Preliminary Assessment of Anthropogenic Radionuclides in Puerto Rico’s Aquatic Systems,” Univ. of South Florida New Researcher Grant Competition, **\$10,000**, 02/04-03/05 (A. Pyrtle-PI)
- “Florida West Coast Regional National Ocean Science Bowl,” NSF Ocean Sciences, **\$15,000**, 10/04-7/05 (A. Pyrtle-Co- PI, PI- T. Greely)
- “FGLSAMP USF Bridge to the Doctorate Project Recruitment Award,” NSF Division of Human Resources, **\$4,750**, 08/04-10/04 (A. Pyrtle-PI)
- “Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science,” NOAA National Marine Fisheries Service Northeast Fisheries Science Center, **\$5,000**, 05/03-12/03, (A. Pyrtle-PI)
- “Minority Aquatic Scientists Profiles,” NSF Ocean Science Sub-award, **\$15,000**, 04/02-04/03, (A. Pyrtle-PI)
- “A Preliminary Investigation of Radionuclide Distribution, Transport and Behavior in the Savannah (Georgia) Estuary,” NSF Ocean Science, **\$18,000**, 03/02-02/03, (A. Pyrtle-PI)
- “College of Science Student Professional Development Workshops and Computing Facility,” US Department of Education Title III SSU Teaching and Learning Grant, **\$39,607**, 01/01-06/02, (A. Pyrtle-PI)
- “Minority Mentorship in Science Seminar Series,” SSU Teaching and Learning Grant, **\$5,000**, 01/01-06/02, (A. Pyrtle-PI)
- “Savannah Aquatic Geochemistry Investigation,” Ford Foundation Postdoctoral Fellowship, **\$35,000**, 01/01-09/01, (A. Pyrtle-PI)
- “Savannah, Georgia Area Radiogeochemistry Study,” American Association of University Women Postdoctoral Research Leave Fellowship, **\$32,000**, 07/00-08/01, (A. Pyrtle-PI)
- “Fate of Artificially Produced Radionuclides in the Arctic Ocean Laptev Sea,” US EPA Science to Achieve Results (STAR) Grant, **\$62,000**, 09/97-05/99, (A. Pyrtle-PI)
- “Distribution of Radiocesium in the Lena River-Laptev Sea System,” American Geological Institute Graduate Scholarship, **\$2,800**, 09/96-05/99, (A. Pyrtle-PI)

**Proposals Currently Under Review**

- “A Biogeochemical Watershed Disturbances and Climate Change Proxy: Assessing the Potential,” NSF Division of Environmental Biology, **\$174,958**, 07/07-06/09, (A. Pyrtle-PI)
- “Supplementary Support for Bridge to the Doctorate Minority Students in Marine Science and Engineering at USF” USF Pre-proposal for the State University System Educational and General 2007-2008 Legislative Operating Budget Issue, **\$382,361** (recurring annually), 09/06-08/07, (A. Pyrtle-PI, Bhansali-Co-PI)

- “Past and Present Water Quality in Florida Coastal Waters: A Continuation Project,” EPA Center for Science and Policy Application for Coastal Environments, **\$41,250**, 08/06-07/07 (PI-A. Pyrtle-PI, J. Smoak-Co-PI)
- “Elixir of Life: Water, Science and the Media,” EPA Center for Science and Policy Application for Coastal Environments, **\$85,253**, 08/06-07/08 (M. Walters-PI, F. Muller-Karger, A. Pyrtle, A. Tihansky- Co-PI’s)
- “Acquisition of ICP-OES Spectrometer,” EPA Center for Science and Policy Application for Coastal Environments, **\$68,400**, 08/06-12/07 (K. Carvalho-Knighton-PI, A. Pyrtle- Co-PI)
- “STREAMS-Supporting Talented and Remarkable Environmental And Marine Science students,” NSF Division of Undergraduate Education, **\$376,050**, 01/01/07-07/30/12, (K. Carvalho-Knighton-PI, A. Pyrtle, K. Fanning, M. Riedinger-Whitmore, V. Williamson-Whitney-Co-PI’s)

## PUBLICATIONS

Key – *previous students*, current Master students, current **Ph.D. students**

### Journal Articles

#### **Published**

- Ithier-Guzmán W.R.** and Pyrtle A.J. (2004) Sources and Fates of Anthropogenic Radionuclides in Puerto Rico: An Overview. *Environmental Monitoring and Restoration*. **3**, p. 55-63
- Johnson-Pyrtle A., and Scott M. (2001) Distribution of Cs-137 in the Lena River Estuary-Laptev Sea System. *Marine Pollution Bulletin*, **42**(10), p. 912-926
- Johnson-Pyrtle A., Scott M., Laing T. and Smol J. (2000) Cs-137 Distribution and Geochemistry of Lena River (Siberia) Drainage Basin Lake Sediments. *The Science of the Total Environment*, **255**(1-3), p. 145-159
- Pyrtle A. J., *Wilborn U.S.*, Ingall E.D., Grantham M.C., and Elliott W.C. (2004) Radionuclide Distribution and Geochemistry of the Savannah (Georgia) Aquatic Environment. *Environmental Monitoring and Restoration*. **3**, p. 64-72
- Pyrtle A.J. and Williamson V.A. (2007) The Minorities Striving and Pursuing Higher Degrees of Success (MS PHD’S ®) In Earth System Science Professional Development Initiative: Enhancing Intellectual Merit and Broader Impact of Diversity Through Alignment of Vision, Goals and Objectives and Measurement. *The Journal of Geoscience Education* Special Issue "Broadening Participation in the Earth and Space Sciences." *Accepted*
- Pyrtle A.J. and Williamson V.A. (2007) To Attract, Engage, and Mentor: Outcomes from the MS PHD’S in Earth System Science Initiative’s® Pilot Project. *Geoscience Education*. *Accepted*
- Pyrtle, A.J., **Powell, J.M.**, Williamson-Whitney, V.A. (2007). Virtual Community Building for Effective Engagement of Students of Color in Earth System Science: Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Case Studies. *The Journal of Geoscience Education* Special Issue "Broadening Participation in the Earth and Space Sciences." *Accepted*
- Weiler C., Beaulieu S., and other DIALOG III participants (including A. Pyrtle) (2000) Perspectives on Graduate Education Experiences in Aquatic Science. *American Society of Limnology and Oceanography Bulletin*, **9**(1)
- Wilmore C. and Pyrtle A.J. (2004) Development and Management of Southwest Florida Water Resources: An Overview. *Environmental Monitoring and Restoration*. **3**, p. 73-81

### ***Submitted***

- Mayo, M.** and Pyrtle, A.J. (2006) Aquatic Resource Management and Anthropogenic Impact in Two Controlled Environments in Puerto Rico: Jobos Bay and Vieques Reserves. *Bull. Mar. Sci. In Review*
- Williams, N.B.**, Nelson, S.A.C., Gregory, J.D., Bullock, B. and Pyrtle, A. J. (2007) Relationship between Flow Regime and Aquatic Macroinvertebrate Abundance in headwater streams in the Piedmont Region of North Carolina, USA. *Urban Ecosystems. Submitted*

### ***Submission Anticipated Prior to June 2007***

- Ithier-Guzmán, W.** and Pyrtle, A.J. (2007) Vieques (Puerto Rico) Mosquito Bay and Kiani Lagoon Cs-137: Insights into Local Sediment Radionuclide Absorption and Retention. *Journal of Environmental Radioactivity. In preparation. (R)*
- Mayo, M.**, Greely, T., Pyrtle, A.J., and Rivera-Rentas, A. (2007) Expanding Science and Diversity among Students and Environments. *Science and Children. In Preparation*
- Mayo, M.** and Pyrtle, A.J. (2007) Aquatic Resource Management and Anthropogenic Impact in Two Controlled Environments in Puerto Rico: Jobos Bay and Vieques Reserves. *Aquatic Conservation: Marine and Freshwater Ecosystems. (R)*
- Powell, J.M.**, Pyrtle, A.J., Williamson-Whitney, V.A. (2007). Exploring Computer Mediated Mentoring: Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Case Study. *Interpersonal Computing and Technology. In Preparation. (R)*
- Pyrtle, A., **Easley, R., Hernandez-Cruz, L.R., Ithier, W., Mayo, M., and N. Williams.** (2007) Radiogeochemistry as a Tool for Environmental Studies: An Overview. *The Science of the Total Environment. In preparation. (R)*
- Williamson-Whitney, V.A., Pyrtle, A. J. and **Powell, J.M.** (2007) Customizing Process to Align with Purpose and Program: The MS PHD'S Case Study. *Assessment & Evaluation in Higher Education. In Preparation.*
- Williamson-Whitney, V.A., Pyrtle, A. J. and **Powell, J.M.** (2007). Customizing Process to Align with Purpose and Program: The MS PHD'S Case Study. *Assessment & Evaluation in Higher Education. In Preparation. (R)*

### **Reviewed Conference Proceedings Papers**

- S. Bhansali, A. Pyrtle, L. Martin-Vega, P. Betzer (2006) Integration of Interdisciplinary Graduate Research and Education through the Institutionalization of Diversity Initiatives, *2006 American Society of Engineering Education (ASEE) Final Conference Proceedings: Advancing Scholarship in Engineering Education*. Chicago, Illinois, June 18-21, 2006 .
- Powell, J.M.**, Pyrtle, A.J., and Williamson-Whitney, V.A. (2005) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Initiative's Professional Development Program. *OCEANS 2005 MTS/IEEE. Conference Proceedings*. Vol. 2, 1204- 1209
- Ithier-Guzmán, W.** and Pyrtle, A.J. (2005) Determining the Presence of Anthropogenic Radionuclides in Puerto Rico: Preliminary Results. *OCEANS 2005 MTS/IEEE. Conference Proceedings*. Vol. 2. 1104-1109
- Wilborn U.S., Pyrtle A.J., Ingall E.D., Grantham M.C., Smith J., and Elliott W.C. (2003) Cs-137 Distribution and Geochemistry in Savannah (Georgia) Riverine, Estuarine and Marsh Environments. *MTS/IEEE OCEANS 2003 Proceedings*. Vol.5, SP2921- SP2926

### Technical Reports

- Bowden, S.T., Brown, S.A., Clair, J.J., Cook, S. Frazier, W., George, A.A., Hilliard-Clark, J., Hoskins, D., Keener-Chavis, P. Pyrtle, A. J., Roberts, J.O., Shepard, A., Thomas, C., Chee Wah, B. and Williamson, V. (2004) Multicultural Pathways to Ocean Sciences Education Charrette Report. Chandler, K., and Spence, L. Eds. [http://www.scseagrant.org/se-cosee/assets/cosee\\_charrette.pdf](http://www.scseagrant.org/se-cosee/assets/cosee_charrette.pdf). 75pp.
- Futrell, J. Gephart, R., Kabat-Lensch, E., McKnight, D., Pyrtle, A, Schimel, J., Smyth, R., Skole, D., and Wilson, J. (2005) Water: Challenges at the Intersection of Human and Natural Systems Workshop Report. Smyth, R. and Gephart J. Eds. PNWD-3597. <http://www.ntis.gov/ordering.htm>. 49pp.
- Gist G., Johnson-Pyrtle A., Bishop A., Pevear D., Ylagan R. and Longo J. (1999) Smectite Clay Characterization by Thermogravimetric Analysis. *Exxon Production Research Co. Research Reports*, EPR.6EX.99(January). 32pp.
- Hernández-Cruz, L.R.**, Dixon, B., and Pyrtle, A. 2007. An Integration of Remote Sensing and Geographic Information Systems (GIS) Techniques for the Study of Soil Erosion by Water in Tropical Ecosystems. 3rd Annual USF Interdisciplinary Graduate Research Symposium Conference Proceedings, April 11, Tampa, FL, *Accepted*
- NSF Advisory Committee for Environmental Research and Education (**including A. J. Pyrtle**). (2005) Complex Environmental Systems: Pathways to the Future. National Science Foundation. [www.nsf.gov/geo/ere/ereweb](http://www.nsf.gov/geo/ere/ereweb). 12pp.
- Williams, N.B.** and Pyrtle, A.J. (2006) Assessing Anthropogenic Impacts on Estuaries in Puerto Rico: An Integrative Approach. USF Interdisciplinary Graduate Research Symposium Conference Proceedings; Research Park, University of South Florida, April 5, 2006; Tampa, FL. *Accepted*

### Chapters or Segments of Books

- Johnson-Pyrtle A. (2003) Marginal Seas. In *Water: Science and Issues*, ed. E. Julius Dasch. New York: Macmillan Reference USA, p.54-57 (Invited Contribution).
- Johnson-Pyrtle A. (2003) Polar Oceans. In *Water: Science and Issues*, ed. E. Julius Dasch. New York: Macmillan Reference USA, 2003, p. 167-171 (Invited Contribution).

### Book Reviews

- Book Chapter Reviewer for the "New Problems, New Challenges" chapter of the *Pollution of Lakes and Rivers: A Paleoenvironmental Perspective* by J. Smol, Oxford University Press, 2002
- Advisory Reviewer for the Life on an Ocean Planet (a high school textbook), Current Publishing Corp.

### Abstracts, Oral, and Poster Presentations (2003 - Present)

#### **2006 American Geophysical Union (AGU) Fall Meeting**

- Ithier-Guzman, W.** and Pyrtle, A. (2006) "TI: Studying the radiogeochemistry of the Caribbean National Forest and the BONUS Power Plant in Puerto Rico" *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract OS23A-1624
- Pyrtle, A., **Berrios, C., Torres, S. Ithier, W., Mayo, M., Williams, N. and Hernandez, R.** (2006) An Analysis of Sediments Collected from Emersson Point and P.R., Using Three Methodologies. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract V33A-0639
- Pyrtle, A. J., Whitney, V. W., **Powell, J. and Bailey, K.** (2006) Meaningful Engagement of Organizational and Agency Partnerships to Enhance Diversity within the Earth System

Science Community: A Case Study. Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract ED33C-04

**Ithier-Guzman, W., Holloman, E., George, C. Bailey, K., Powell, J., Crumsey, J., White, J., Escalera, J., Johnson, A.,** Pyrtle, A. and Williamson-Whitney, V. (2006) Seeing beyond the pipeline: MSPHD'S a growing experience. Eos Trans. AGU, 87(52), Fall Meet. Suppl., Abstract ED33C-06

### **2006 Ocean Sciences Meeting**

Hastings, R. H. Greely, T., and Pyrtle, A., (2006) An Undergraduate's Involvement in the OCEANS GK-12 Teaching Fellowship Program. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16L-03

**Ithier, W.,** and Pyrtle, A. J. (2006) The Distribution of Cs-137 at three locations in Puerto Rico. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS15B-14

**Ithier-Guzman, W.;** Greely, T., Lodge, A. Pyrtle, A., and R. Woolums, R (2006) Is the Hands-On Experience Increasing the Retention of Ocean Literacy for Special Education Students. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16C-08

Williamson-Whitney, V.A., Pyrtle, A. J. and **Powell, J.M.** (2006) Best Practices in Programs Designed To Increase Diversity through Alignment of Vision, Goals and Measurement. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS33E-02

**Williams, N.B.,** Nelson, S.A.C., Gregory, J.D., Bullock, B. and Pyrtle, A. J. (2006) Relationship Between Flow Regimes and Aquatic Macroinvertebrate Abundance in Headwater Streams in the Piedmont Region of North Carolina, USA. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS35J-15

**Powell, J.M.** Pyrtle, A. J. and Williamson-Whitney, V.A. (2006) A Scientific Renaissance in Cyberspace, Leveraging Computer Mediated Communication: MS PHD'S Case Study. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS34E-03

**Mayo, M.,** Pyrtle, A. J., and **Ithier, W.** (2006) Sediment Quality Baseline Data for Coastal Resource Management in Two Protected Areas in Puerto Rico. AGU, 87(53), AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25J-03

**Fisher, E. M., Saleem, S. Tyner, E.C.,** Greely, T., Pyrtle, A., Lodge, A., and Ivey, S., (2006) Scientists gone wild: Creative ways to approaching science education. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS121-02

Greely, T., Lodge, A., Betzer, P. Pyrtle, A., and Ivey, S., (2006) Broadening the Impacts of Graduate Education and Training: Contributions to Ocean Literacy and Communication Across Disciplines. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS44D-03

Bryce, L.A., Pyrtle, A., Greely, T., Hill, H. W., Lang, W. S. and Betzer, P. (2006) Using Science to Teach Science: DLESE Annual Meeting Brings Together Researchers and Educators to Enhance Geosciences Learning. AGU, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16C-01

### **2006 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Meeting**

Ithier-Guzman, W.; M. Mayo; T. Greely, A. Lodge and A. Pyrtle (2006) GK-12 a different way to reach out and impact the Minority Community, Society for Advancement of Chicanos and Native Americans in Science (SACNAS), Tampa, FL. Oral Presentation

### **2006 National Technical Association Meeting**

**Williams, N.B.;** A.J. Pyrtle; **Luz-Raquel Hernandez Cruz; Warner Ithier; Marietta Mayo** (2006) Accumulation of sediment and pollution in two estuaries on the island of Puerto

Rico: An integrative approach. National Technical Association: Chicago, IL. (Oral and poster presentations)

**Powell, J.M.**, Pyrtle, A. J. and Williamson-Whitney, V.A. (2006) The Minorities Striving and Pursuing Higher Degrees of Success (MS PHD'S ®) In Earth System Science Professional Development Initiative. National Technical Association: Chicago, IL. (Oral and poster presentations)

#### **2006 American Society of Oceanography and Limnology Summer Meeting**

Williams, N.B.; S.A.C. Nelson; J.D. Gregory; B. Bullock; A.J. Pyrtle (2006) Relationship between flow regimes headwater streams and aquatic macroinvertebrate in the Piedmont region, North Carolina, USA. American Society of Oceanography and Limnology Summer Meeting: Victoria, British Columbia, Canada. (Oral presentation)

#### **2005 American Geophysical Union (AGU) Fall Meeting**

**Ithier-Guzman, W.** and Pyrtle, A. (2005) "Insights into Local Sediment Radionuclide Absorption and Retention in the island of Puerto Rico" Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract OS51C-0573

**Nieves, I., Brown, D., Bailey, K., Easley, R., Johnson, A., Ithier, W., Powell, J.,** Whitney, V. W. and Pyrtle, A. J. (2005) The use of a Virtual Community to Complement the MS PHD'S Professional Development Program. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract ED53B-08

Whitney, V. W. and Pyrtle, A. J. (2005) Enhancing Intellectual Merit and Broader Impacts by Aligning Measurement, Vision, Goals and Objectives. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract ED13E-1172

LoDico, J. M., Greely, T., Lodge, A., Pyrtle, A. J., Ivey, S., Madeiros, A., and Saleem, S. (2005) Ocean Science in a K-12 setting: Promoting Inquiry Based Science through Graduate Student and Teacher Collaboration. Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract ED53A-0324

#### **2005 American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting**

Greely, T., Pyrtle, A., Lodge, A., and Ivey, S., (2005) Ocean Sciences as a Bridge to Engage Scientific Inquiry in the K-20 Classroom Through the Professional Development of Scientists and Teachers. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

**Ithier, W.**, Pyrtle, A. J., Smoak, J., and Mayo, M. (2005) Radiogeochimistry of the BONUS Prototype Nuclear Power Plant's Local Environment Near Rincon, Puerto Rico. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

Irizarry-Ocasio, N., Menchaca, S., Greely, T., Pyrtle, A. J., and López-Garriga, J. (2005) Integrating Environmental Science Tools into an Ocean Science GK-12 Experience. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

**Hill, R. J.**, Kirby, B. E., Mahowski, J. B., Greely, T. M., Pyrtle, A. J., and Lodge, A. P. (2005) Incorporating Marine Science into an Elementary School Curriculum: Adapting Instruction for All Grade Levels. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

**Judkins, H. L., Hill, H. W.**, Greely, T., Pyrtle, A., Ivey, S., and Lodge, A. (2005) Bringing the Oceans to Teachers: Professional Development Opportunities. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

Mayo, M., Pyrtle, A. J., and **Ithier, W.** (2005) Aquatic Resource Management and Anthropogenic Impact in Two Controlled Environments in Puerto Rico. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

- Powell, J. M.,** Pyrtle, A. J., Williamson, V, Griess, C.A. (2005) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Professional Development Program. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.
- Saleem, S. M., Madeiros, A., Ringelspaugh, A., Greely, T., Pyrtle, A., Lodge, A., and Ivey, S., (2005) How Teaching Marine Science Became my Creative Outlet. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.
- Tyner, E. C.,** McCabe, P., Greely, T. and Pyrtle, A. J. (2005) It Takes a Veliger to Teach a Child. 2005 ASLO Aquatic Sciences Meeting. Salt Lake City, Utah, Feb. 2005.

#### **2005 ASLO International Summer Meeting**

- Ithier-Guzman, W.** and Pyrtle, A. (2005) Determining the Presence of Anthropogenic Radionuclides in Puerto Rico: Preliminary Results. 2005 ASLO International Meeting Session SS78. Santiago de Compostela, Spain, June 22, 2005

#### **2005 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) Meeting**

- Quijano, A., Pyrtle, A. J., Ithier, W., and Mayo, M. (2005 ) Determination of particle size and radionuclides in the island of Puerto Rico and Vieques. 2005 SACNAS National Conference. Denver, Colorado, Sept. 2005.

#### **OCEANS 2005 Marine Technology Society and the Oceanic Engineering Society of IEEE**

- Powell, J.M.,** Pyrtle, A.J., and Williamson-Whitney, V.A. (2005) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Initiative's Professional Development Program. OCEANS 2005 MTS/IEEE. Conference Proceedings DVD. Sept. 2005, Washington, D.C.
- Ithier-Guzmán, W.** and Pyrtle, A.J. (2005) Determining the Presence of Anthropogenic Radionuclides in Puerto Rico: Preliminary Results. OCEANS 2005 MTS/IEEE. Conference Proceedings DVD. Sept. 2005, Washington, D.C.

#### **2004 AGU Fall Meeting**

- Ithier-Guzman, W.** and Pyrtle, A. (2004) Studying Anthropogenic Radionuclides in Puerto Rico: Preliminary Results Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract H53A-1198
- Hill, H. W., Judkins, H. L.,** Greely, T., Ivey, S., Pyrtle, A., and Lodge, A. (2004) Diving Into the Ocean Sciences: Professional Development Opportunities for Teachers. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED34A-07
- Alexander, C. J. Hiza, M., Jenkins, G., Karsten, J., Molina, L., Pyrtle, A., and Runyon, C. (2004) AGU Committee on Education and Human Resources Sub-Committee on Diversity Program for the Term 2004-2006. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED31B-0741
- Williamson, V. W. and Pyrtle, A. J. (2004) Customizing Process to Align with Purpose and Program: The 2003 MS PHD'S in Ocean Sciences Program Evaluative Case Study. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED44A-07
- Powell, J. M.,** Williamson, V. W., Griess, C.A. and Pyrtle, A. J. (2004) MS PHD'S Professional Development Program: A Scientific Renaissance in Cyberspace. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED31B-0747
- Mayo, M., Williams, C., Rodriguez, T., Greely, T., Pyrtle, A. J., Rivera-Rentas, A. L. and Vilches, M. (2004) Reciprocal Education Experiences In Two GK-12 Programs: Teachers Learning And Students Teaching In Diverse Settings. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED43C-04

Pyrtle, A. J., Williamson, V. W., **Powell, J. M.**, Lodge, A., Griess, C.A., and Hutcherson, M. L. (2004) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Initiative's Professional Development Program. Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract ED21D-04

#### **2004 ASLO/The Oceanography Society Ocean Research Conference**

Pyrtle, A. J., Wilborn, U.S., Ingall, E. D., Grantham, M., and Elliott, W. C. (2004) Savannah, Georgia (USA) Estuarine, Marsh and Riverine Sediment Radiogeochemistry Characteristics. 2004 Ocean Research Conference Session SS5.15. Honolulu, Hawaii, Feb. 17, 2004.

Pyrtle, A. J., and Williamson, V. W. (2004) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Initiative. 2004 Ocean Research Conference Session SS10.03. Honolulu, Hawaii, Feb. 17, 2004.

#### **OCEANS 2003 Marine Technology Society and the Oceanic Engineering Society of IEEE**

Wilborn U.S., Pyrtle A.J., Ingall E.D., Grantham M.C., Smith J., and Elliott W.C. (2003) Cs-137 Distribution and Geochemistry in Savannah (Georgia) Riverine, Estuarine and Marsh Environments. *MTS/IEEE OCEANS 2003 Proceedings DVD*. San Diego, California, Sept. 2003.

#### **2003 International Safe Water Conference**

**Ithier-Guzmán W.** and Pyrtle A.J. (2003) Sources and Fates of Anthropogenic Radionuclides in Puerto Rico: An Overview. 2003 International Safe Water Conference, Atlanta, GA, Oct. 2003.

Pyrtle A. J., Wilborn U.S., Ingall E.D., Grantham M.C., and Elliott W.C. (2003) Radionuclide Distribution and Geochemistry of the Savannah (Georgia) Aquatic Environment. 2003 International Safe Water Conference, Atlanta, GA, Oct. 2003.

Wilmore C. and Pyrtle A.J. (2003) Development and Management of Southwest Florida Water Resources: An Overview. 2003 International Safe Water Conference, Atlanta, GA, Oct. 2003.

#### **2003 American Geophysical Union Fall Meeting**

Pandya, R.E., Pyrtle, A. J., and Wilmore, C. (2003) The DLESE Ambassadors Program. Eos Trans. AGU, 84(46), Fall Meet. Suppl., Abstract ED11A-07

Pyrtle, A. J. and Williamson, V. W. (2003) Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Initiative. Eos Trans. AGU, 84(46), Fall Meet. Suppl., Abstract ED51B-1199

Pyrtle, A. J., Wilborn, U. S., Ingall, E. D., Grantham, M., and Elliott, W. C. (2003) Cs-137 Distribution and Retention in Savannah, Georgia (USA) Estuarine, Marsh and Riverine Environments. Eos Trans. AGU, 84(46), Fall Meet. Suppl., Abstract H51C-1084

#### **Other Select Oral Presentations (2003-Present)**

Office of Naval Research Progress Review Southeast Region Meeting, University of South Florida College of Marine Science, 05/04

North Carolina A&T State University's Graduate Student Research Conference Luncheon Keynote Speaker, Greensboro, NC, 10/04 (*Invited Speaker*)

Carnegie Mellon University Office of the Provost Summit for Developing Strategies for Increasing Diversity and Mentoring Minority Students, Pittsburgh, PA, 10/03 (*Invited Speaker*)

Digital Library for Earth System Education Annual Meeting, Boulder, CO, 08/03

Florida A&M University, Science Engineering Research Policy Institute, Orlando, FL, 03/03  
Exxon Upstream Production Research Center, Reservoir Characterization Division, Houston,  
TX, 01/03  
Governmental Agency Collaborations to Improve Diversity in Earth System Science, NSF,  
Arlington, VA, 01/03

## **OTHER ACHIEVEMENTS**

### **Editorships**

*Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science* web site Editor, 2002-present  
*ASLO Minorities in Aquatic Science* web site Minority Aquatic Scientists Profiles Editor, 2001-2006

### **Awards and Recognitions**

2006 Recognition by the National Academies for the *MS PHD'S Professional Development Program*  
2006 Florida-Georgia Louis Stokes Alliances for Minority Participation Recognition and  
Appreciation of Service  
2005 "Research Rising Star" designation by USF Vice President for Research  
2002 Georgia Tech Teaching Fellow  
2001 Ford Foundation Post-doctoral Fellow  
2000 American Association of University Women Post-doctoral Research Leave Fellow  
1997 US EPA NCERQA STAR Fellow  
1994-1999 American Geological Institute Minority Graduate Scholar  
1998 Alpha Kappa Alpha Educational Foundation Eva Evans Mathematics and Science Fellow  
1994 Ford Foundation Pre-doctoral Fellow  
Profiled by the Minority Environmental Leadership Development Initiative in 2005  
Profiled in *Oceanography Magazine* in 2005  
Profiled in Holt Rinehart & Winston's high school textbook in 2005  
Profiled in an upcoming General Learning Communications' elementary school textbook in 2005  
Profiled in K12 Inc.'s elementary school text book for New Jersey in 2005  
Profiled in Harcourt School Publishers' elementary school text book for Florida in 2005  
Profiled in Currents Publishing's *Life on an Ocean Planet* high school textbook in 2005  
Profiled on the *Remarkable Careers in Oceanography-Women Exploring the Ocean* web site in 2003  
Profiled on the *ASLO Minorities in Aquatic Science* Minority Aquatic Scientists web site in 2003  
Profiled on the Black Entertainment Television's inaugural *Careers* web site in 2002

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

Sigma Xi, American Association for the Advancement of Science, American Geophysical Union,  
ASLO, Geological Society of America, National Science Teachers Association

## **PROFESSIONAL SERVICE**

### **National**

NSF Advisory Committee on Environmental Research and Education Member, 2003-present  
Vieques Puerto Rico Field Station Development Advisory Committee, 2004-present  
Mid-Atlantic Center for Ocean Science Education Excellence Advisory Board Member, 2005-present

Howard University Science, Engineering, and Mathematics Program External Advisory Board, 2004-present

Florida-Georgia Louis Stokes Alliances for Minority Participation Advisory Board Member, 2004-present

International Steering Committee for the International Safe Water Conferences, 2003-present

Savannah River Environmental Sciences Field Station Advisory Board, 2004-present

ASLO Minorities Program Mentor, 1997-present

Academic Reviewer for a Holt, Rinehart and Winston Earth Science textbook, 2006

Session Organizer for "Enhancing Diversity in Ocean Sciences: Successful Models, Best Practices, Benefits, and Outcomes I" session at the 2006 Ocean Sciences Meeting in Honolulu, HI

Session Organizer for "Enhancing Diversity in Ocean Sciences: Successful Models, Best Practices, Benefits, and Outcomes II" session at the 2006 Ocean Sciences Meeting in Honolulu, HI

Session Organizer for "Enhancing Diversity in Ocean Sciences: Successful Models, Best Practices, Benefits, and Outcomes III Posters" session at the 2006 Ocean Sciences Meeting in Honolulu, HI

Advisory Reviewer for Currents Publishing's *Life on an Ocean Planet* high school textbook, 2005

Digital Library for Earth System Education (DLESE) Annual Planning Committee Member, 2002-2005

Session Organizer for "Radionuclide Tracers: Contributions to Our Understanding of Freshwater, Estuarine and Marine Processes" session at the 2005 ASLO International Meeting in Santiago de Compostela, Spain, June 22, 2005

Session Chair for "Diversity and Equity in the Earth and Space Sciences: Successful Models for Increasing Participation in the Geosciences Workforce III" Posters session at Fall 2004 AGU Meeting in San Francisco, CA, December 13, 2004

SouthEast Center for Ocean Science Education Excellence Advisory Board Member, 2003-2004

ASLO Education Subcommittee Member, 2003-2004

American Association of University Women Proposal Review Panelist, 2001-2003

Sea Grant Proposal Reviewer, 2003

USGS Proposal Reviewer, 2003

NSF Hydrology Program Proposal Reviewer, 2003

DLESE Ambassadors' Program Strand Leader, 2003

NSF Geoscience Education Program Proposal Review Panelist, 2002, 2003

NSF Computer Science, Engineering and Mathematics Scholarships (CSEMS) Program Proposal Review Panel Chair, 2002, 2003

NSF CSEMS Program Proposal Review Panelist, 2000-2003

NSF Graduate Teaching Fellows in K-12 Education Program Proposal Review Panelist, 2002

*Marine Chemistry* Reviewer, 2002

Science Expert Team Member for NASA-funded "Signals of Spring", a teacher training and 6th-12th grade student outreach program, 2002

National Society of Black Engineers Conference Technical Paper Competition Judge, 2002

NSF Opportunities for Enhancing Diversity in the Geosciences Program Proposal Review Panelist, 2001

Developed a "Minority Mentors in the Sciences" program and "Professional and Technical Development Workshops" for SSU, 2000-2001

### **University**

USF College of Marine Science Dean Search Committee, 2006-present

USF Graduate Diversity Advisory Council, 2006-present

USF Institute on Black Life Faculty Research Committee Member, 2005-present

USF Office of Undergraduate Research Advisory Board Member, 2005-present  
USF College of Marine Science Space Committee Member, 2004-present  
USF College of Marine Science Education and Outreach committee  
USF College of Marine Science Microbiology Faculty Search Committee Member, 2004-2005

### **COMMUNITY SERVICE**

Co-director of Church Alive Marriage Ministry (Valrico, FL), 2006-present  
Agape Christian Center (Bryan, TX) Advisory Council Member, 1999-present  
Marriage Ministry Facilitator and Scholarship Ministry Member at New Birth Missionary Baptist Church (Lithonia, GA), 2000-2003  
Nova Scotia Youth Outreach Missionary, 2002  
Agape Christian Center (Bryan, TX) Trustee and Youth Director, 1996-1999

### **STUDENT COMMITTEES (active)**

#### **Masters**

Kathryn Bailey, Biological Oceanography (Committee Member, Advisor: Dr. John Paul, USF College of Marine Science)  
Quenton Bonds, Electrical Engineering (Committee Member, Major Professor: Thomas Weller, USF College of Engineering)  
Charlotte Clayton, Chemical Oceanography (Major Professor: A. Pyrtle, Research Advisor: Dr. Joseph Smoak, USF St Petersburg Environmental Science, Policy and Geography Program)  
Erica Echols, Chemical Oceanography (Major Professor and Co-advisor: A. Pyrtle, Research Advisor: Dr. Kathy Carvalho-Knighton, USF St Petersburg Environmental Science, Policy and Geography Program)  
Katherine Gardner, Chemical Oceanography (Advisor: A. Pyrtle)

#### **Ph.D.**

Kathryn Bailey, Environmental Engineering Science (Co-advisor: A. Pyrtle, Advisor: Dr. Peter Stroot, USF College of Engineering)  
Robyn Conmy, Chemical Oceanography (Committee Member, Advisor: Dr. Paula Coble, USF College of Marine Science)  
Regina Easley, Chemical Oceanography (Co-advisor: A. Pyrtle, Advisor: Dr. Robert Byrne, USF College of Marine Science)  
Luz Raquel Hernández-Cruz, Chemical Oceanography (Major Professor and Co-advisor: A. Pyrtle, Advisor: Dr. Barnali Dixon, USF St Petersburg Environmental Science, Policy and Geography Program)  
Warner Ithier-Guzmán, Chemical Oceanography (Advisor: A. Pyrtle)  
Marietta Mayo, Chemical Oceanography (Advisor: A. Pyrtle)  
Jozan Powell, Instructional Technology (Co-advisor: A. Pyrtle, Advisor: Dr. Ann Barron, USF College of Education)  
Andrea Rocha, Environmental Engineering Science (Co-advisor: A. Pyrtle, Advisor: Dr. Peter Stroot, USF College of Engineering)  
Marta Rodriguez, Chemical Oceanography (Major Professor: A. Pyrtle, Research Advisor: Dr. Michael Tringali, Florida Fish and Wildlife Research Institute)  
Nekesha Williams, Chemical Oceanography (Advisor: A. Pyrtle)