

Key Personnel

Project Location: MOSI Back Woods Restoration

Site: 25 acres of Wetland and Upland Habitats

Curriculum Vitae

Alicia Sue Slater-Haase
Work Phone 813-974-9896
Cell Phone 813-784-9010

Employment:

Vice President for Advancement, Museum of Science & Industry, 2006 to present. Responsible for major gifts fund raising, marketing, public relations and membership for MOSI with a staff of three development professionals and twelve marketing and sales professionals.

Executive Director for Advancement, University of South Florida College of Engineering, 2001 to 2006. Responsible for major gifts fund raising for the College of Engineering and managing a staff of two professional fund raisers. Increased private giving to the College from \$700,000 to over \$2,000,000 annually. Areas of advancement included major gifts, planned gifts, annual giving, foundation and corporate relations, board development, special events, alumni relations, and marketing.

Director of Development, University of South Florida College of Engineering, 2000 to 2001. Responsible for all phases of the management of prospects/donors capable of gifts up to \$100,000 and stewardship of all College donors; coordination of the College's Annual Fund activities; developing and sustaining relationships with the College's graduates; coordinate the production of the College's publications and the College's special events. Promoted to Executive Director for Advancement.

Associate Director of Development, University of South Florida College of Engineering, 1995 to 2000. Responsible for special events and publications for the College of Engineering; author and design four annual newsletters, produce the College's Annual Report on Research and Academics and other major College publications; coordinate all fund raising and special events (Lou Falcon Golf Tournament, Bull-arney, Advisory Board Meetings); serve as the College liaison to the Engineering Alumni Society including coordination of workshops, meetings and networking programs. Promoted to Director of Development.

Director, Center for Electron Microscopy, University of South Florida College of Engineering, 1985 to 1995. Coordinating and overseeing the functioning of the Center for Electron Microscopy. Scanning electron microscopy work, energy dispersive X-ray spectrometer analysis, research consultation, darkroom supervision, laboratory inventorying and ordering, laboratory billing and accounting.

Education: Bachelor of Arts, Zoology
University of South Florida, Tampa, Florida

Certification: Electron Microscopy Certification,
Electron Microscopy Society of America

Awards Received:

Outstanding Staff Award, College of Engineering, University of South Florida, 1992-1993.

Outstanding Staff Award, University of South Florida, 1990.

First Place Micrograph, SEM Division, "Vascular Cast of Opossum Tongue". Florida Society for Electron Microscopy Eighth Annual Meeting, Clearwater Beach, Florida, 1990.

Second Place Micrograph, "Digital Signal Processor Containing 40,000 Transistors". Florida Society for Electron Microscopy Seventh Annual Meeting, Gainesville, Florida, 1989.

Outstanding Young Woman of America, 1983.

Professional Organizations:

Council for Advancement and Support of Education – member

Engineering Development Forum - member

Florida Society for Electron Microscopy

Material Science Director-at-large, 1989-1991, 1993-1995; Convention Coordinator, 1983 - 1985, 1992 – 1993; Vice-President, 1984-1985, 1991-1992; President-Elect, 1988-1989; Newsletter Editor, 1983 – 1984; Secretary, 1982-1984

Microscopy Society of America - member

Southeastern Electron Microscopy Society - member

Community Service:

Leadership Hillsborough, Class of 1997.

Association Director, Men's Adult Baseball League of Tampa Bay, 1993 - 2001

Manager, Men's Senior Baseball League White Sox Team, 1992-2001

Judge, Hillsborough County Regional Science Fair, 1990 - 1997.

Judge, Riverhills Elementary School Math Expo, 1990 - 1993.

Producer and Coordinator of "Microscopic Encounters", a traveling scanning electron micrography display, 1985 to 1994.

Leader of the Gators 4-H Club of Hillsborough County, 1982-1985.

Publications:

Dwornik, Julian J., Michael L. O'Neal, Timothy M. Ganey, Alicia Sue Slater-Haase, John A. Ogden, and Charles E. Wagner. Metallic Dissolution of A Civil War Bullet. *Microscopy and Analysis*. Accepted for publication in July 1995.

Klotch, D.W., T.M. Ganey, A.S. Slater-Haase, and J. Sasse. Assessment of Bone Formation During Osteogenesis: A Canine Model. *Otolaryngology-Head and Neck Surgery*, Vol 112, No. 2. Page 291. February 1995.

Ganey, T.M., D.W. Klotch, A.S. Slater-Haase and J. Sasse. Evaluation of Distraction Osteogenesis by Scanning Electron Microscopy. *Otolaryngology-Head and Neck Surgery*. Vol 111, No 3, Part 1. Page 265. September 1994.

Ganey, T.M., D.W. Klotch, J. Sasse, and A.S. Slater-Haase. Quantitative Comparison of Mineral Content during Distraction Osteogenesis. *Scanning*, Vol 15, Suppl III, 1993.

Levit, V., A.S. Slater-Haase, A. Sagues. Microstructure of Zn-Based Alloy Concrete Sprayed Coatings after Electrochemical Corrosion. *Scanning*, Vol 15, Suppl III, 1993.

Klotch, Douglas, Timothy Ganey, Harvey Greenburg, and Alicia Slater-Haase. The effects of radiation therapy on reconstruction of mandibular defects using Titanium reconstruction plate. In press. 1992.

Haase, Barry A., Slater, Alicia Sue, Sasse, Joachim. Immunogold staining of bovine fetal growth plates: specific localization of structural and growth factor proteins. *Microscopy Research and Technique* Vol 22, No 4: 405-406. 1992.

Kauffman, J. Murase, T., Slater-Haase, A., and Sagues, A. Effect of service conditions on thermally sprayed zinc anodes on concrete surfaces. *Microscopy Research and Technique* Vol 22, No 4: 405. 1992.

Slater-Haase, Alicia Sue, Haase, Barry A., Sasse, Joachim. Surface morphology of fetal bovine growth plates. *Microscopy Research and Technique* Vol 22, No 4: 405. 1992.

Sagues, A., and A. Slater. Morphology and Extent of Contamination of the Coating-Metal Interface of Epoxy Coated Reinforcing Steel Bars. *Journal of Electron Microscopy Technique*. 1991.

Zayed, Abla M. and Alicia Slater-Haase. The nature on the concrete-steel rebar interface and its effect on corrosion initiation. *Corrosion 92*; National Association of Corrosion Engineers. Paper 209: 1-10. March 1992.

Abstracts:

Keezer, D.C., A.S. Slater-Haase. Structural and Materials Characterization of Tape Automated Bond Electrical Interconnections. Proceedings, ASM Materials Week, EM&P Division. Cincinnati, Ohio. 1995.

Keezer, D.C., R.J. Wenzel, A.S. Slater-Haase. Analysis of Temporary TAB Interfaces for High Speed Applications. Proceedings, First International Symposium on Advanced Packaging Materials, Processes, Properties and Interfaces. Atlanta, Georgia. 1995.

Ganey, Timothy M., Alicia Sue Slater-Haase, Michael L. O'Neal, Julian Dwornik, and John A. Ogden. Metallic dissolution of a Civil War Bullet Embedded in a Sternum. Proceedings, Florida Society for Microscopy Twelfth Annual Meeting, Daytona Beach, Florida. 1994.

Patton, Geoffrey W., and Alicia Sue Slater-Haase. Particulate-associated metals of Hillsborough County air quality samples examined by EDS. Proceedings, Florida Society for Microscopy Twelfth Annual Meeting, Daytona Beach, Florida. 1994.

Ganey, T.M., D.W. Klotch, A.S. Slater-Haase and J. Sasse. Evaluation of Distraction Osteogenesis by Scanning Electron Microscopy. American Academy of Otolaryngology-Head and Neck Surgery Bulletin. Vol. 12, No. 5. 1993.

Klotch, D.W., T.M. Ganey, A.S. Slater-Haase, and J. Sasse. Assessment of Bone Formation During Distraction Osteogenesis: A Canine Model. American Academy of Otolaryngology-Head and Neck Surgery Bulletin. Vol. 12, No. 5. 1993.

Patton, G.W., H.F. Anderson, I.L. Brooks, A.J. Rawson, E.M. Haller, A. Steele, T.J. Ganey and A. Slater-Haase. The extent of dolphin anthracosis in Florida. Invited poster: Clinical Controversies on Pulmonary Medicine, Clearwater, Florida (Sponsored by the American Lung Association/Gulf Coast). 1993.

Zayed, A.M., and Slater-Haase, A.S. Morphology of the transition zone using back-scattering electron imaging. Proceedings, Florida Society for Electron Microscopy Tenth Annual Meeting, Crystal River, Florida. 1992.

Westrich, G., Z.M. Zheng, H. Brown, A. Garces, A. Slater, and S. Specter. Ultrastructure of FLV Infected NIH/3T3 After Passage In Vitro. Proceedings of the Southeastern Electron Microscopy Society. Gainesville, Florida. Vol 14. Pp 36. 1991.

Ganey, Timothy, Alicia Slater, Douglas Klotch and John Ogden. Effects of Radiation Therapy on Reconstructed Mandibular Defects Using Titanium Plates. 20th Annual Meeting, Southern Connective Tissue Society. 1990.

Brown, H.K., Klein, T.W., Yamamoto, Y., Slater, A. and Freidman, H. Ensheatment of Legionella pneumophila phagosomes by ER cisterns in permissive mouse macrophages. Proceedings, Florida Society for Electron Microscopy Eighth Annual Meeting, Clearwater Beach, Florida. 1990.

Ganey, T.M., Slater, A.S., Klotch, D.W., and Ogden, J.A. Effects of radiation therapy on

reconstructed mandibular defects using titanium plates. Proceedings, Florida Society for Electron Microscopy Eighth Annual Meeting, Clearwater Beach, Florida. 1990.

Brown, H. Keith, Klein, T.W., Yamamoto, Y., Slater, A. and Friedman H. Ultrastructural differences in macrophage reaction to phagocytosed Legionella pneumophila: Permissive vs. nonpermissive. Proceedings, Florida Society for Electron Microscopy Seventh Annual Meeting, Gainesville, Florida. 1989.

Slater, Alicia Sue. Sectioning and polishing techniques for rigid materials. Proceedings, Florida Society for Electron Microscopy Seventh Annual Meeting, Gainesville, Florida. 1989.

Ammons, James, Richard Green, and Alicia Slater. Visualization of Logic States by Voltage Contrast Imaging. Proceedings, Florida Society for Electron Microscopy Sixth Annual Meeting, Tampa, Florida. 1988.

Brown, H. Keith, James V. Fiorica and Alicia S. Slater. Ultrastructural Correlates of the Myometrial Junctional Zone. Proceedings, Florida Society for Electron Microscopy Sixth Annual Meeting, Tampa, Florida. 1988.

Green, Richard, James Ammons and Alicia Slater. Qualitative Voltage Contrast Techniques for Conductor Failure Analysis. Proceedings, Florida Society for Electron Microscopy Sixth Annual Meeting, Tampa, Florida. 1988.

Papadopoulos, George, Bruce A. Suprenant and Alicia Slater. Identifying Supplementary Materials in Blended Cements. Proceedings, Florida Society for Electron Microscopy Sixth Annual Meeting, Tampa, Florida. 1988.

Green, Richard; Slater, Alicia; Ammons, James. P/N Junction Depth Determination Using Electron Beam Induced Current (EBIC). Proceedings, Florida Society for Electron Microscopy Fifth Annual Meeting, Tampa, Florida. 1987.

Desai, Usha; Slater, Alicia S.; Haller, Edward M.. 1984. C3b Receptors on Type II Cells: End of a Controversy. Proceedings, Florida Society for Electron Microscopy Second Annual Meeting, Tampa, Florida. 1984.

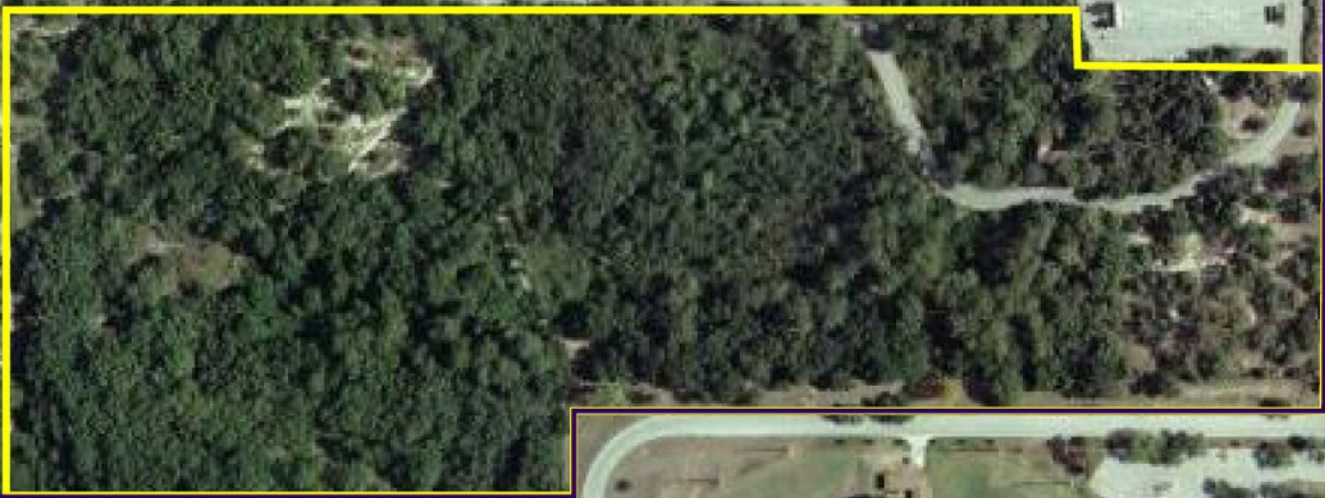
Hilbelink, Don, Margaret W. Bryant, Alicia S. Slater, H. Keith Brown. Preliminary Analysis of Vascular Casts by Scanning Electron Microscopy. Proceedings, Florida Society for Electron Microscopy Second Annual Meeting, Tampa, Florida. 1984.

Haller, Edward M.; Paterson, James F.; Slater, Alicia S.; Shelley, Sue A.; and Balis, John U. Ultrastructural Assessment of Ozone Induced Lung Injury and Repair. Proceedings, Florida Society for Electron Microscopy First Annual Meeting, Tampa, Florida. 1983.

Slater, Alicia S. and John Lawrence. 1980. The Effect of Arm Loss on Feeding and Growth Rates in Luidia clathrata (Echinodermata: Asteroidea). Florida Scientist, 43: 16.



and the Backwoods





Backwoods



Key Personnel
Project Location: MOSI Back Woods Restoration
Site: 25 acres of Wetland and Upland Habitats

Dana A. Lawson

11715 Sycamore Place
Tampa, FL 33617
H 813-988-5189/C 305-619-0707
Email: buggy73@verizon.net

PROFESSIONAL EXPERIENCE:

Manager of Group and Outreach Programs, Museum of Science and Industry, 10/06 - Present

The Group and Outreach Manager directs the environmental and marine science programs at the museum. The Manager handles every component of these programs, including writing curricula, hiring and training of education staff, coordination of program details, managing the budget, public relations, quality control and monitoring/training of safety standards. Several examples of these programs include ecology field trips to Egmont Key and Ft. Desoto, Scout programs (badge workshops and sleepovers) and space and flight programs.

Director of Education, Marine Resources Development Foundation, 6/05 – 10/06

The Director oversees the entire educational program, including all educational staff, interns and program participants (approximately 4,000 – 5,000). The Director handles all of the training and evaluations of staff and interns – including all Red Cross certifications and boat handling skills. Additionally, the Director develops all new curricula; manages the education budget; serves on a variety of public councils; obtains all permits required for education and research; manages marketing, fundraising and public relations; attends local, state, and national conferences and serves as the twenty-four hour/seven day per week emergency contact. Once promoted to the Director position, the Assistant Director position was dissolved and absorbed into the Director's role.

Co-chair of the Annual Desmoid Tumor Research Foundation 5K Run/Walk, 4/06 – Present

The Desmoid Tumor Research Foundation is a non-profit, grassroots organization based out of Suffern, NY (www.dtrf.org). The foundation's mission is to raise awareness and funds for research for this rare form of cancer. The foundation was established in 2006 and this event, held on 7/1/06, was the second fundraising effort. We raised over \$8500 in donations from local businesses and participants. Additionally, the event was televised on the local ABC news station both live from the race and again taped later that evening. We plan to hold this event every year in the late spring/early summer in Naples, Florida.

Assistant Director of Education, Marine Resources Development Foundation, 9/00 – 6/05

In addition to field instructor responsibilities, the Assistant Director aids the Director in the hiring and training of new staff. The Assistant Director oversees all educational programs and develops both program and staff schedules. Other responsibilities include curriculum development, attending national conferences, supervision of the staff, and emergency contact.

Co-owner/Operator of Wreck Diver Ventures, Inc., 1/98 – 6/01

Wreck Diver Ventures, Inc. was a snorkel and SCUBA dive business based out of Key Largo, Florida. The boat held twelve divers, twenty snorkelers, or a mixed combination of the two. My responsibilities included captaining the vessel; acting as first-mate; handling SCUBA and snorkel instruction; marketing, billing, and budget analysis; boat maintenance/upkeep and participating in all U.S. Coast Guard safety inspections.

Lead Field Instructor, Marine Resources Development Foundation, 9/98 – 9/00

In addition to field instructor responsibilities, the lead field instructor takes on an administrative role. He/she assists the Assistant Director and Director of education in curriculum development, attending national conferences, hiring and training of new staff, and the supervision of staff. The lead field instructor is also responsible for stocking all the labs, boats, and facility with the necessary equipment.

Field Instructor, Marine Resources Development Foundation, 11/95 – 9/98

Instructors lead discussions on coral reef, mangrove and seagrass ecology. Students are then taken to these areas to snorkel, as well as to identify and participate in discussions about native plants and animals. Students explore local water quality issues through “hands on” labs. Other programs include hydrology of the Everglades and Florida Bay lectures, water quality testing and analysis, benthic zonation studies, and fish population surveys. Other responsibilities include boat handling, snorkel and SCUBA instruction and supervision, and lifeguarding.

EDUCATION:

B.A. in Biology and B.A. in Environmental Studies, focus Conservation Biology, Cum Laude
Middlebury College, Middlebury, VT, 1995

M.S. in Marine Biology

Nova Southeastern University, Dania Beach, FL, 2006

RELATED COURSEWORK:

Undergraduate

Vertebrate Natural History/Comparative Anatomy and Physiology, Ecology, Advanced Ecology, Genetics and Evolution, Cells and Organelles, Plant Biology, Chemistry, Physics, Geography, Biogeography, Immunology, Environmental Science, Conservation and Environmental Policy, Calculus I and II, Statistics

Graduate

Marine Ecosystems, Marine Chemistry, Physical Oceanography, Marine Geology, Coral Reef Ecology, Biostatistics, Invertebrate Taxonomy/Ecology, Fish Taxonomy/Ecology, Plankton Ecology, Ornithology, Marine Mammal Management, Marine Mammals, **Thesis:** A Review of the Biology and Ecology of Gastropod Corallivores

RELATED SKILLS:

American Red Cross Lifeguard Instructor

USCG 50 Ton Captain License

PADI Divemaster

AAUS Diver

DAN O2 Provider

Reef Check Regional Coordinator, Team Scientist and Leader

REEF Course Instructor

PC skills include proficiency in typing, MS Word, MS Excel, MS Power Point, ArcView GIS

ASSOCIATED ORGANIZATIONS:

FMSEA – Florida Marine Science Educators’ Association

FAST – Florida Association of Science Teachers

SOP – Seagrass Outreach Partnership

FNPS – Florida Native Plant Society

REEF – Reef Environmental Education Foundation

Reef Check

Reef Relief

NMEA – National Marine Educators’ Association

Ocean Conservancy

Key Personnel

Project Location: MOSI Back Woods Restoration

Site: 25 acres of Wetland and Upland Habitats

Dave Conley, VP Exhibits

MOSI (Museum of Science & Industry)
4801 E Fowler Av, Tampa, FL 33617
813-987-6340, 813-987-6346 (fax)
dconley@mosi.org

Academic Credentials

University of Calgary	Physics and Math	B.S. 1972
University of Calgary	Business Management course	1988
Exploratorium, San Francisco	Residency Program	1988
University of Calgary	Management Communications course	1993

Professional Credentials

- Thirty five years in the science center and museum profession including fourteen years in senior management.
- Proficient in interactive exhibit design and production.
- Member of ASTC (Association of Science and Technology Centers) national organization for professional development.
- Member of FAM (Florida Association of Museums).

Appointments

Museum of Science & Industry, Tampa, FL - VP Exhibits	1999 – current
Cumberland Science Museum, Nashville, TN - VP Exhibits	1993 - 1999
Calgary Science Center, Calgary, Alberta	1972 - 1993
Acting Manager of Design and Production	
Exhibits Coordinator	
Display Technician.	
Member of the volunteer Board of Trustees of the Alberta Science Center Society. Two years as Activities Committee Chairperson, one year on the Executive Committee as Vice President.	1984-1987

Publications

"Video Projector Shoot-Out", *Presentations* periodical, Dec 93

"Diversifying the Planetarium of the 90's" paper presentation at the Planetarium Association of Canada annual conference, Edmonton, Alberta, 1987

Written numerous articles for in-house newsletters including:

- "Looking at Mars", Alberta Science Center Society Newsletter, Vol. 4, #2, June 1986
- "The Shadow of the Moon", NetWork - Alberta Science Center Society Newsletter, Vol. 1, #2, Jan. 1987
- "Do Alligators Go to Science Centers?", NetWork - Alberta Science Center Newsletter, April/May 1991

Accomplishments

1. Over thirty five years experience in the design, implementation and project management of interactive science center exhibits, including *Disasterville* (MOSI 2006); *Kids in Charge* family science center exhibits (MOSI 2005); *Egypt: Puzzles and Mysteries*, a 1,000 sq ft traveling exhibition (MOSI 2003); *High Wire Bike* exhibit (MOSI 2001); *Solar Truck* (MOSI 2001), “*O Is For Oranges*” young children’s gallery (MOSI 2000); upgrades to popular *Gulf Coast Hurricane* exhibit (MOSI 2000); large robotic dinosaur traveling show (MOSI 1999); *Computer Lab* renovations (Cumberland Science Museum 1997); the award winning *Discovery House* (Cumberland Science Museum 1997); *Chroma Key* (Cumberland Science Museum 1998); *Deep Sea Adventure* program space (Cumberland Science Museum 1994); *Beyond Our Limits* exhibition plan, Calgary Science Center (1992).; *The Beat Goes On*, a 1200 sq. ft. interactive traveling exhibition on cardiology and heart health (Calgary Science Center 1988); *Gravity Well* (Calgary Science Center 1984).
2. Member of management team involved in Long Term and Strategic planning, annual budget preparation, sponsorship proposals, concept development, managing Exhibits Department with an annual budget of \$480,000.
3. Extensive travels and visits to science centers and museums.
4. Key role in securing project funding:
 - PI and primary grant writer for NSF grant for *Disasterville* – awarded \$1.58 million (2003)
 - Presentation to Wildland Urban Interface Work Group for Wildfire project - awarded \$100,000 (2002),
 - U Florida, Knee Joint Research public dissemination of research NSF Grant - awarded \$47,000 (2003)
 - Agere Systems for Hi Tech Health project - awarded \$50,000 (2001);
 - Proposal to SW Florida Water Management District for Reading Rail Project - awarded \$1,015 (2001);
 - Proposal preparation Jacarlene Foundation for Butterfly Encounter program space - awarded \$30,000 (2000),
 - Presentation to Radnor Homes and Middle Tennessee Home Builders Association for *Discovery House* - awarded \$20,000 (1997);
 - Presentation to Nissan Corporation for Earth 2U exhibition installation - awarded \$30,000 (1996);
 - Presentation to Aerostructures for Flight Simulator exhibit - awarded \$50,000 (1996).

Ancillary Activities

Taught public science programs: Group leader on Solar Eclipse Tours (Mazatlan 1991, Great Falls 1979); Halley’s Comet return viewing (1986), Telescope Making classes; High Voltage and Cryogenics science demonstrations; planetarium shows.

Affiliations on Projects

Key role in establishing and maintaining partnerships and science content advice by involving scientists, researchers, specialists and other experts in exhibition projects. Examples include engineers and emergency managers in *Disasterville* and medical personnel and health care industry in the *Amazing You*.



APPLICATION FOR POLLUTION RECOVERY FUND ASSISTANCE

DATE OF APPLICATION: April 25, 2007

1. Applicant: The legal name of the applicant/organization, the organizational unit and the complete mailing address of the applicant.

Name: Alicia Slater-Haase
Organization: Museum of Science and Industry (MOSI)
Address: 4801 East Fowler Avenue
Tampa, FL 33617-2099

2. Project Manager Information: Give name and title of the representative of the applicant who will be the Environmental Protection Commission's principle contact concerning this application

Name: Alicia Slater-Haase
Title: Vice President for Advancement
Address: 4801 East Fowler Avenue
Tampa, FL 33617-2099

Phone Number: 813-987-6017

Email: alicias@mosi.org

Project Title EPC Restoration of MOSI Wetland and Upland Habitats

Project Time Start: ASAP End: Continuous project

Total Cost of Project \$ 200,000

Total EPC share requested \$ 125,000

3. Assistance Type: **New or Renewal** (check one)

New - Award of funds for initial request within the project period.

Renewal - Award of additional funds for a project beyond the current project period.

4. Project Location: The specific location(s) of the project. (Attach Site Map)

MOSI 75-acre campus

5. Is the Project for:

Restoration of a polluted area

Mitigation of the effects of pollution

Pollution Control Activity to prevent or minimize pollution

Education (Environmental Stewardship and/or Pollution Prevention)

6. Is the Project directed toward restoring an identified "polluted area" (a geographic area destroyed or altered by dredging or filling or contaminated by an emission or discharge), or toward terminating an identified pollution source? Identify and explain:

A 25-acre portion of MOSI's campus is a designated stormwater retention area and receives pollutants on a daily basis. This is exacerbated by the run-off from rooftops and adjacent parking lots. An additional source of pollutant is material coming from the near-by Ball Metal Plant, which produces 314 metric tons of volatile organic compounds into the air each year.

MOSI plans to restore these 25 acres with the removal of exotic vegetation and the placement of native vegetation that can remove the pollutants. MOSI also plans to remove discarded trash left in the area as part of the effort to reduce pollutants in this ecosystem, and hence into the aquifer. Because MOSI serves the general public as well as school groups, this is a unique opportunity to educate residents of Hillsborough County about storm water run-off, pollution, methods of pollution control, the benefits of native vegetation, and restoration, and what those terms imply. Durable outdoor exhibitry and professional signage will enhance visitors understanding of these messages. The signage will be placed appropriately to recognize the project's partnership with the Environmental Protection Commission of Hillsborough County.

7. Is the harm or potential harm to health, safety or welfare of the public or wildlife actual or potential? Does the project seek to alleviate actual or potential harm and what is the severity of the harm and the causal relationship between the “pollution” and the harm?

Identify and explain:

The exotic vegetation, especially invasive climbing plants, has created a serious situation of overgrowth. Control of this by elimination and replanting, will allow for easier preservation and care of this ecosystem. The stormwater runoff from roads and parking lots introduces pollutants into the ecosystem that endanger animals living in the ecosystem and the aquifer which feeds into the Hillsborough River. This project would help alleviate this concern by clearing out sediments that have accumulated in the existing stormwater detention devices and further polish the water before it enters the aquifer. The public will have an opportunity to learn the value of these measures by entering sensitive parts of this ecosystem via extended board walks and revamped trails. Exhibitory and signage on the board walks and along the walkways will educate visitors as to the value of ecosystem management and stormwater treatment by native vegetation. As mentioned earlier, the durable professional signage will recognize the partner in this project, the Environmental Protection Commission of Hillsborough County.

8. How long has the pollution existed or how long before any harm will be evident?

200 tons of trash and solid waste were removed 18 years ago from MOSI's Back Woods with funding from the Environmental Protection Commission of Hillsborough County. The property has been in a state of restoration since that time. There still exist pockets of trash that need removal, as well as accumulated new trash. Stormwater detained in this area has the potential to absorb pollutants from this accumulation and carry them into the aquifer and into the Hillsborough River. The growth of invasive plants, have become a serious concern in the last 12 years. The benefit of restoration and the resulting pristine ecosystem will be interpreted to the public through exhibitory and signage.

9. Identify and describe how the project proposes to alleviate the pollution (addressing technical, practical, and cost effectiveness issues):

This project will alleviate the pollution of the uplands and wetland habitats through plant selection, exotic plant removal, trash removal and public education for future stewardship. Education programs will be put in place to help the public understand the process of restoration and pollution control by using natural resources.

10. Is the polluted area one which has previously been subject to commission enforcement and, if so, when and what was the result?

No

11. If no actual pollution exists and no prior commission enforcement action has occurred, does the project otherwise enhance pollution control activities within the County?

The area is part of the aquifer system that feeds the Hillsborough River through a series of sinkholes. Better treatment of this water on the surface will allow for cleaner water to enter the Hillsborough River. The actions proposed in this project will enhance pollution control by minimizing the effects of polluted ground water run-off.

12. Can this Project be divided into separate and independent parts, and if so,

a) What are they? 1. Salary for a full-time project coordinator to oversee all aspects of MOSI's Back Woods restoration. 2. Materials and equipment (a) natural vegetation (b) equipment to move material in and out of the wetlands and detention ponds 3. Exhibitory in the 25-acres to educate visitors on the importance of restoration and pollution control 4. Material and labor to install two boardwalks

b) How would the costs be allocated between them? _____

1. Salary - \$50,000 2. Restoration material and equipment - \$25,000 3. Signage and exhibits - \$25,000 4. Boardwalks - \$25,000

c) Would the applicant be willing to accept only partial funding? _____

Yes – The key to this entire project is the salary for an individual to be a full-time manager and educator. This project will not be successful without this crucial component.

13. Are other funding sources committed to the project?

If so, how much and for what? _____

MOSI will continue to provide ongoing support. Additional grants, particularly from SWFWMD, are being applied for. MOSI is currently working with Dr. Mark Stewart, USF faculty member, who has a \$5,000 grant from SWFWMD to educate the public on the affects of stormwater run-off and its interconnection with the Hillsborough River Basin. He agrees that there is a strong need to have a full time project coordinator/educator on site.

14. Why do you believe that this Project is of sufficient importance to justify the expenditure of Pollution Recovery Funds?

This 25 acre site is one of the rare places in Hillsborough County where a resident can view all of Florida's natural habitats in one location. The restoration of this site will restore this land to its natural state and allow the residents of Hillsborough County to enjoy Florida's native habitats in a natural, unpolluted state. Removal of invasive species and planting proper native species will protect the Hillsborough River by preventing pollutants from entering its estuarine system. In addition, the educational impact of providing information on pollution control, restoration, the value of native habitats, and ecosystem stewardship to MOSI's one million visitors a year is extremely significant.

15. Will the project enhance the value of private property, and if so, whose?

This project will enhance the educational value and aesthetic value of the publicly owned property at MOSI, a not-for-profit 501(c)3 organization.

Project Location: MOSI Back Woods Restoration
Site: 25 acres of Wetland and Upland Habitats

Project Narrative:

A. Objectives of this project

The objective of this project is to restore MOSI's environmental habitats, to minimize pollution, and to turn this experience into a useable and effective educational tool for its one million visitors per year. The environmental insults on the habitat are 1) invasive species 2) its continuous use as a run-off water treatment from extensive surrounding parking lots and 3) the trash left behind by visitors as they walk through these woods, as well as previous dumping in this area. This has resulted in environmentally unsound conditions that disallow the use of the habitat for educational purposes. This has been especially detrimental to MOSI's education programs whose environmental educators would use the habitat as a teaching tool for hundreds of thousands of school children. An additional objective is to restore access into the wetlands by clearing access points and rebuilding a critical boardwalk that was destroyed in the hurricanes of 2004. This restoration project would allow this natural habitat to serve as an educational and inspirational resource to the citizens of Hillsborough County and beyond.

B. Results and/or benefits expected

MOSI plans to restore the wetlands and the upland habitats to their natural state enjoyed over 10 years ago. This will allow for the daily use of the general public as well as specific targeted educational programs for school-aged children. The Back Woods will also be used for a number of events including the *Senior Back Woods Walk* - an annual event in which over a thousand people enjoy a day long senior fair at MOSI, beginning with a walk through the wetlands and upland habitats.

The environment will be served by the removal of unwanted species that have encroached and become established over the past ten years. This habitat is in a continuous state of absorbing pollutants from Fowler Avenue and MOSI's parking lot run-off. It is time to restore the area to a series of habitats that can absorb the pollutants and help it return to its more classically pristine state. Interpretive signage will be utilized to educate MOSI guests on the resulting healthy growth and returning wildlife population benefit.

C. General Project Information

MOSI's 7-acre site of wetland habitats are surrounded by beautiful long-leaf pines that are bordered by an oak habitat, containing a high sand hill habitat with gopher tortoises. The wetlands also contain a bay head and a sinkhole. In the late 1980s, these environments were used as a dump site and an off-road vehicle entertainment site, destroying all vegetation except for the tallest trees. During that time, MOSI's volunteers and staff contributed to re-establishing these basic habitats. Further human destruction through illegal dumping and vehicle usage is now prevented by locked fencing surrounding the property. However, the habitats have been left on their own to fend off invasive species due to budget and staffing restraints over the

last ten years. Using early photographs of the site as a baseline, MOSI plans to restore these sensitive lands to their original, pristine condition. Clearing the overgrowth of invasive species and human trash and replanting native species will allow polished ground water to enter the aquifer. The value of these efforts will be transferred to the public through interpretive exhibits and signage. These educational efforts will increase the level of care and preservation of these and other natural areas and reduce the need for later restoration.

Project Location: MOSI Back Woods Restoration
Site: 25 acres of Wetland and Upland Habitats

Scope of the work:

The scope of this work contains four elements:

1. Hire a hands-on coordinator to oversee the project
2. Conduct an extensive planning and design phase to develop an innovative, educational and environmentally sound master plan
3. Alleviate the insults to the environment by removing exotic species, debris from detention ponds and accumulated trash and enhance the environment by adding native wetland and upland species
4. Develop easy access for the general public through walkways and two boardwalks with interpretive signage and exhibits.

The key to this restoration project and the continuation of this habitat in its intended state is MOSI's "*Backwoods Person*." MOSI will recruit this person as a hands-on coordinator, educator and caretaker of this 25-acre site. In addition to planning and design, the "*Backwoods Person*" will be responsible for the maintenance schedule, removal of exotics, controlled burns, coordination of volunteers and act as the liaison with local and governmental institutes such as Hillsborough County and the City of Tampa to coordinate the proper removal and disposal of organic waste.

This restoration project will add hardy wetlands species that are adaptive to the nutrients in these soil types and suitable for handling the pollutants and run-off. The purchase of these plants will be a key element in the scope of this work. The "*Backwoods Person*" will also be charged to clean out the detention ponds put in place by the Southwest Florida Water Management District years ago as part of a stormwater retention system. Sediments flowing through these pipes have accumulated in the detention ponds and have reduced the efficiency of the systems.

The final aspect of this project is to rebuild the boardwalks destroyed by hurricanes. The initial boardwalk traverses part of the wetlands and connects to the sinkhole. It assists people across the wetlands during the wet season and connects the sand scrub habitat to the oak hammock habitat. The second boardwalk places visitors in the middle of the wetland habitat for a spectacular view of this unique ecosystem.

Project Location: MOSI Back Woods Restoration
 Site: 25 acres of Wetland and Upland Habitats

Budget Information:

BUDGET CATEGORIES

	PRF Funds	Federal	Applicant	State	Other
a. Personnel	50,000		50,000		
1.					
2.					
b. Administrative			10,000		
c. Materials	25,000		10,000		
d. Contractual					
e. Construction	25,000				
f. Other	25,000		5,000		
g. Total Direct Charges (Sum of a. to f.)	\$125,000		\$75,000		

* Additional funding for this project is being sought from other public and private entities.

Project Location: MOSI Back Woods Restoration
Site: 25 acres of Wetland and Upland Habitats

POLLUTION RECOVERY FUND APPLICATION PROCESS
Terms and Conditions

The following terms and conditions govern the use of the Pollution Recovery Fund and will be considered during the application review process and applied to any subsequent award of grant funding:

1. This application is for funds granted through the Environmental Protection Commission's Pollution Recovery Fund as regulated by the EPC Act and Chapter 1-9, Rules of the Environmental Protection Commission. Reimbursement for work performed is contingent upon submittal of valid, original invoices to the EPC Project Manager within the timeframe specified in a fully executed grant agreement by and between the applicant and the Environmental Protection Commission of Hillsborough County. No work associated with the approved project is authorized until such time as the applicant has received a copy of a fully executed grant agreement.
2. Funding for indirect costs (e.g. – overhead) in excess of five percent (5%) of the total direct costs of the project will not be considered.
3. Funding requests for capital equipment will only be considered if such equipment relates directly to the project proposed and is a vital part of the project's success. Any such requests will be considered on a case-by-case basis and any equipment purchased using Pollution Recovery Funds may be subject to ownership by the Environmental Protection Commission under the terms of the executed grant agreement.
4. Travel is not reimbursable by the Pollution Recovery Fund unless explicitly allowed under the terms of the executed grant agreement.
5. Repairs and/or routine maintenance of equipment, not purchased by Pollution Recovery Funds and, therefore, not subject to EPC ownership are not reimbursable by the fund.
6. EPC Board approval and subsequent execution of grant agreements may take up to one year from the date of application. Applicants should plan accordingly to allow for this timeframe in their project planning. Every effort will be made to expedite seasonal or otherwise time-sensitive projects however, at no time will the process take less than six (6) months from the application deadline.

I have read and accept the terms and conditions presented here and choose to submit my application for Pollution Recovery Funds in accordance with these terms and conditions.

Applicant's Signature:

Date:

Principle Investigator
Project Location: MOSI Back Woods Restoration
Site: 25 acres of Wetland and Upland Habitats

Witold (Wit) Ostrenko

President, Museum of Science & Industry (MOSI)
4801 E. Fowler Avenue
Tampa, Florida 33617
Phone: (813) 987-6300

Education

Bachelor of Science, Zoology, Florida Atlantic University, December 1969
Master of Science, Aquatic Ecology, University of Miami, May 1978
Doctorate of Philosophy, Oceanography, Nova University, a.b.d.
Training in Russian/English scientific translation

Professional Association

President of International Association of Science-Technology Centers (ASTC), Washington, DC, 2005 and 2006

Experience

1987 to Present - Museum of Science & Industry, Tampa, Florida

President and CEO of MOSI, Inc. 1990-present. Generated 1 million visitors in 2006. Responsible for board development, fund raising, long-range and strategic planning. Currently completing \$34 million Phase II and III of a 15-year Master Plan expansion. Completed Kids In Charge!, a 40,000-sq.-ft. children's science center; Disasterville, a 10,000-sq.-ft. U.S. natural hazards permanent exhibition; Middle Charter School; and Welcome Center Building. In 2007, will open 13,000 sq.ft. health and human body exhibits. A total 318,000 sq. ft. on 75 acres.

July 1995 completed Phase 1 of a 15-year master plan. Expansion designed by Antoine Predock quadrupled original size to 265,000 square feet located on 65 acres. The \$36 million expansion includes an IMAX *Dome* Theater and Living System for water treatment. It contains the nation's first public library, Head Start School, and elementary school-science center-university relationship. Has staff of 103, budget of \$8.5 million, 656,000 visitors, and 13,000 household members.

Director of Museums for Hillsborough County 1987-1989. Responsible for developing the original site into a state-of-the-art science center from 11 acres to 47 acres. The 65,000-square-foot facility transformed a staff of 33 to 60, \$900,000 in revenue to \$3 million, 90,000 to 375,000 visitors, and 300 to 3,500 members.

1979 to 1987 - Historical Museum of Southern Florida, Inc., Miami, Florida

Assistant Director/Marketing Director 1982-1987 of new 35,000-square-foot history museum in a downtown cultural facility designed by Philip Johnson, which contained both a Fine Arts Center and Public Library. Full responsibility for attendance, public relations, membership, and fund-raising efforts (corporations, individuals, deferred giving). Assisted with board development. Active in Chamber of Commerce Corporate Responsibility committee.

Education Director 1979-1982. Responsible for fund raising and fiscal planning for education department. Initiated and developed history museum education program including community tours, enrichment classes, outreach activities, museum demonstrations, and volunteer activities. Designed educational components for new facility exhibitions. Developed history curriculum for all educational programs including school programs, public demonstrations, and human interpretation of archaeological and historic sites. Led seven-day historic Everglades tours and ten-day historic Florida Keys tours for Smithsonian Field Series.

1976 to 1979 - Museum of Science, Miami, Florida

Director of Education. Developed and directed science education programs including hiring and supervision of six full-time and 47 part-time staff and instructors. Trained and supervised 100 plus volunteer docents. Was responsible for fiscal planning of budget and fund raising for program activities.

1974 to 1976 - Graduate Student, University of Miami, Coral Gables, Florida

Instructor of laboratory classes, including lectures, demonstrations, tutoring, and testing in General Biology and Genetics. Research in aquatic ecology and small mammal population studies. Familiar with ecological methods, anatomy, and physiology.

1970 to 1974 - United States Coast Guard

Selected Awards/Honors/Appointments

Board Member, Greater Tampa Chamber of Commerce, 2005-07

Tampa Hispanic Heritage Amigo Award, 2004

Florida Association of Museums Lifetime Achievement Award, 2004

Board of Directors, Giant Screen Theater Association, 2001

Advisory Board, American Association of Museums, Museums & Community, 2000-2001

Board of Directors, Association of Science Technology Centers, 2000 to present

Executive Committee, Tampa Bay Convention & Visitors Bureau, 2000-2002

Board of Directors, Tampa Bay Convention & Visitors Bureau, 1997 to 2002

Tourism Committee Chairman, Hillsborough County, 1997-98

Vice President of Florida Association of Museums, 1996

American Science Technology Centers Government Liaison Committee, 1994-1995

Leadership Tampa Bay, 1994 to present

Museum Assessment Program Leader I & II, 1993 and 1995

Florida Association of Museums Innovator Award, 1993

Independent Day School Board Member and Treasurer, 1993-1995

Leadership Florida Regional Representative and State Board, 1992

Board Member, Tampa Hillsborough Visitors and Convention Authority

National Estuary Board, 1990-1992

Leadership Tampa, 1989 to present

Institute of Museum Services Reviewer, 1986 and 1989

Tampa Chamber Education Comm. & Chairman of Environmental Education Comm.

Inaugural President of Florida Science Museum Association, 1987

Inaugural Committee and President, Florida Association of Museums, 1982

Leadership Florida, Class II to present

Selected Professional Presentations

World Café – Life After 9/11, 2002

Visitors Study Association – Video Assessment of Museum Visitors, Boston 2000, Orlando 2001

ASTC – Problem Solving Techniques, 2001

ASTC – Contemporary Exhibit Design, 2000

ASTC - Visitor Reach through Visitor and Convention Bureaus, 1998

ASTC - Tourist Development Linking with Busch Gardens, 1997

FAM - Development of Young Professional Support Organization, 1996

ASTC - Professional Development, 1995

Leadership Florida - Culture in Tampa, 1993

FAM (Florida Association of Museums) Museum Visitor Services, 1992

Selected Publications

Ostrenko, W. and Steier, F. Conversation as a core process: Creating a culture of dialogue. In Juanita Brown, David Isaacs and the World Café Community, The world Café: Shaping our futures through conversations that matter. San Francisco: Berrett-Koehler, 2005.

Ostrenko, W., Slaying the Financial Dragon: Strategies for Museums, American Association of Museums, Washington, DC, 2003, "Community as Key to the Competitive Edge," pp. 79-86.

Ostrenko, W. and Atherholt, W. "e-Commerce in Science Museums," published ASTC 2000.

Steier, F. and Ostrenko, W. "Taking Cybernetics Seriously at a Science Center: Reflection-in-interaction and Second Order Organizational Learning. Cybernetics and Human Knowing, 2000, Vol. 7, 2-3, pp. 47-69.

Ostrenko, W. and Zajonc, M. "Banyan Trees to Cultural Cornerstones," *Southeastern Museum Conference Journal*, Published 1984 by Southeastern Museum Conference, Memphis, Tennessee.

Ostrenko W., Rothstein, B., and Mazzotti, F.J. "Population Dynamics and Utilization of the Exotic Melaleuca quinquenervia by Three Sympatric Rodents. Abstract. Florida Academy of Science, 1979 Annual Meeting.

Ostrenko, W. and Mazzotti, F.J. "The Role of Science Museums in Environmental Education - Bringing the Public and the Environment Together." Abstract. Florida Academy of Science, 1977 Annual Meeting.