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February 15, 2006

VIA HAND DELIVERY

Mr. Geoffrey Griffis, Chairman
D.C. Board of Zoning Adjustment
441 4th Street, N.W., Suite 210
Washington, D.C. 20001

PHIL FEOLA
202-663-8789
phil.feola@pillsburylaw.com

**Re: Resumes of Witnesses , BZA Application No. 17429,
1801 Foxhall Road, NW**

Dear Chairman Griffis:

Enclosed please find the resumes of witnesses that the Friends of St. Patrick's Episcopal Day School LLC and St. Patrick's Episcopal Church and Day School (collectively, "**Applicants**") for property located at 1801 Foxhall Road, N.W are prepared to offer as experts in their respective fields at the hearing in the above-captioned application.

Sincerely,

Phil T. Feola

Samantha L. Mazo

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D.C. OFFICE OF ZONING
2006 FEB 15 PM 3:50

Enclosures

cc: Andrea Ferster, Esquire
Katherine Bradley
John Delaney
Ed Murphy
Anthony Barnes

BOARD OF ZONING ADJUSTMENT
District of Columbia
CASE NO. 17429
EXHIBIT NO. 38

Alan L. Ward I

Principal

Landscape Architect/Urban Designer

EDUCATION

Harvard University, Graduate School of Design, Master in Landscape Architecture, and Advanced Photographic Studies at Massachusetts Institute of Technology

University of Cincinnati, College of Design, Architecture and Art, Bachelor of Architecture

PROFESSIONAL AFFILIATIONS

American Society of Landscape Architects

Institute for Urban Design, Fellow

Urban Land Institute

Cultural Landscape Foundation, Board of Directors

ACADEMIC POSITIONS

Harvard University Graduate School of Design, Assistant Professor of Landscape Architecture, 1981-82, Critic in Landscape Architecture, 1982-83 and 1986, and Lecturer in Landscape Architecture, 1998.

College of Architecture and Planning, Ball State University, Instructor in Architecture, 1974-1976.

Mr. Ward is a landscape architect and urban designer with over 20 years experience at Sasaki, including landmark projects such as the Dallas Arts District, Reston Town Center, and Cleveland Gateway, which have received multiple national awards. He was principal landscape architect for the prize-winning 2008 Beijing Olympic Green.

Trained as both an architect and landscape architect, Alan takes a balanced and comprehensive view of the built environment. He has taught in both architecture (Ball State University) and landscape architecture (Harvard Design School), and is the author and photographer of the book *American Designed Landscapes: A Photographic Interpretation*. Mr. Ward has served on national awards juries for *Progressive Architecture* and the American Society of Landscape Architects, as well as peer reviewer for the U.S. General Services Administration (GSA). He was a Visiting Artist at the American Academy in Rome in 2002.

TOWN PLANNING AND URBAN DESIGN EXPERIENCE

2008 Beijing Olympics Olympic Green; Beijing, China

Babelsberg Media City; Potsdam, Germany

Brambleton Town Center; Loudoun County, Virginia

Dallas Arts District; Dallas, Texas

Dhahran Master Plan; Dhahran, Saudi Arabia

Kierland Master Plan; Scottsdale, Arizona

Lowry Air Force Base Redevelopment; Denver, Colorado

Megaproyecto Puebla City Plus; Puebla, Mexico

Oerlikon District; Zurich, Switzerland

El Paseo Del Canal San Antonio; San Juan, Puerto Rico

Puerto Rico Trade & Convention Center District; Puerto Rico

Reston Town Center; Reston, Virginia

Southwood Master Plan; Tallahassee, Florida

Taipei Terminal Master Plan; Taipei, Taiwan

The Woodlands Town Center; The Woodlands, Texas

URBAN PARK AND PLAZA EXPERIENCE

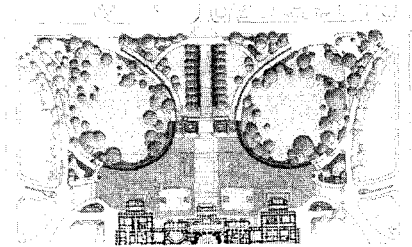
Addison Circle Park; Addison, Texas

Akron Lock 2 Canal Park; Akron, Ohio

Civic Plaza Redevelopment; San Jose, California

Cleveland Gateway Sports District; Cleveland, Ohio

Davis Park; Kansas City, Missouri



U.S. Capitol Visitor Center



Addison Circle Park



2008 Beijing Olympics Olympic Green

URBAN WATERFRONT EXPERIENCE

Colgate-Palmolive; Jersey City, New Jersey

El Paseo del Canal San Antonio; San Juan, Puerto Rico

Fort Lauderdale Riverwalk; Fort Lauderdale, Florida

Jacksonville Shipyards; Jacksonville, Florida

North Coast Harbor Master Plan; Cleveland, Ohio

Reedy River Corridor; Greenville, South Carolina

Scranton Road Peninsula Redevelopment Master Plan; Cleveland, Ohio

Truman Waterfront & Navy Property Master Development Plan; Key West, Florida

AWARDS

ASLA Honor Award in Communication for *American Designed Landscapes*, 1998.

AIA Honor Award in Urban Design for Cleveland Gateway, 1996.

AIA Honor Award in Urban Design for Reston Town Center, 1992.

Progressive Architecture Citation in Urban Design for Cleveland Gateway, 1992.

ASLA Honor Award in Urban Design, Cleveland Gateway, Cleveland, Ohio, 1991.

ASLA Merit Award in Urban Design, Taipei Terminal, Taipei, Taiwan, 1991.

Progressive Architecture Citation in Urban Design for Brambleton, 1990.

Bradford Williams Medal for best article in *Landscape Architecture*, 1986.

ASLA Merit Award in Communication, Built Landscapes Exhibition, 1985.

RELATED PROFESSIONAL ACTIVITIES

Landscape and architectural photographer with photographs published in *Architectural Record*, *Historic Preservation*, *House and Garden*, *Landscape Architecture*, *New York Times*, *Progressive Architecture* and over 100 other periodicals and books.

Lectures on photography at Harvard University, North Carolina State University, University of Minnesota, University of Pennsylvania, The Smithsonian Institution, Syracuse University, and Utah State University.

PUBLICATIONS

"An UnConventional Center: An Insider's View of an Urban Design Project in San Juan," *Landscape Architecture*, May 2000.

Photographer of the book, *The Miller Garden: Icon of Modernism*, 1999.

"Designed Landscapes," *View Camera*, January/February 1999.

Author and photographer of the book, *American Designed Landscapes: A Photographic Interpretation*, published by Spacemaker Press in 1998.

"Trees in the Frame," *Arnoldia*, Summer 1997.

"Spring Grove: The Role of the Rural Cemetery in American Landscape Design," *Landscape Architecture*, September 1985.

"Urban Design Traditions in Practice Today," *UD Review*, Fall 1983.

ANTHONY STEPHEN BARNES

Barnes Vanze Architects, Inc.
1238 Wisconsin Avenue, NW
Suite 204
Washington, DC 20007
202.337.7255

EDUCATION

2005	Registered: Commonwealth of Virginia and the State of Maryland
1985	Registered: District of Columbia
1983	M. Arch., Yale University
1979	B. Arch., University of Witwatersrand, South Africa

EXPERIENCE

February, 1989	Principal, Barnes Vanze Architects, Inc.
1983-1989	Hartman-Cox Architects, Washington, D.C.
1972-1982	Foreign Experience: Johannesburg, Cape Town, London and Guatemala

Barnes Vanze Architects, Inc. is a firm based in Georgetown, Washington, DC, with a branch in Middleburg, VA, and a combined staff of 27. Founded in 1989, the firm specializes in high-end residential work, institutional and commercial projects. The firm's work has been recognized by numerous awards and publications.

Institutional projects include projects for George Washington University, the University of Virginia, the University of Charleston, WV and the Chevy Chase Club.

Much of the residential work has been completed in neighborhoods near the proposed development of the former Brady estate. More than 100 completed residential projects lie within a three-mile radius in neighborhoods such as Colony Hill, Wesley Heights, Spring Valley, Cleveland Park, American University Park, Glover Park and Georgetown.

The firm's work may be seen at www.barnesvanze.com

EDUCATION

B.S. (Honors), Landscape Architecture,
University of Wisconsin, 1976

AFFILIATIONS

American Society of Landscape Architects,
Former Potomac Chapter Secretary

HONORS + AWARDS

American Institute of Architects, Northern
Virginia Chapter, 2000 Awards, Award of
Excellence, Commercial Architecture,
National Museum of the American Indian
Cultural Resource Center, Suitland,
Maryland. Polshek, Tobey+Davis,
Architects.

American Institute of Architects, Northern
Virginia Chapter, 2000 Awards, Award of
Merit, Commercial Architecture, One
Freedom Square, Reston, Virginia.
SmithGroup, Architects.

American Institute of Architects, Northern
Virginia Chapter, 2000 Awards, Award of
Excellence, Commercial Architecture,
National Museum of the American Indian
Cultural Resource Center, Suitland,
Maryland. Polshek, Tobey+Davis,
Architects.

National Award, 1999 Design Review,
Industrial Design (I.D.) Magazine, Women in
Military Service for America Memorial
(WIMSA) Washington, D.C.

Canadian Society of Landscape Architects,
National Merit in Design Category, 1998
CSLA/AAPC Award, Women in Military
Service of America Memorial, Washington,
D.C.

American Society of Landscape Architects,
Maryland and Potomac Chapters, Award for
Innovative Excellence, Women in Military
Service of America Memorial, Washington,
D.C., 1998

Honor Award for Commercial Design, 9690
Deereco Road, ASLA Maryland and
Potomac Chapter, 1989

Honor Award for Residential Design,
Lutherville Residence, ASLA Maryland and
Potomac Chapter, 1989

Honor Award for Commercial Design,
General Casualty Insurance Corporate
Headquarters, ASLA Wisconsin Chapter,
1981

PRESENTATIONS

University Initiatives that Foster Community
Support in the Town/Gown Relationship,
SCUP Mid-Atlantic Conference, 2002.

Making the Urban Village More Secure,
Arlington Economic Development and the
Ballston Partnership, 2002

MARSHA LEA, ASLA**Senior Associate**

Ms. Lea is a project manager and senior landscape architect with over 25 years of experience. She contributes her expertise in the planning and design of museum, memorials, university campuses, mixed-use developments, streetscapes, parks and recreational facilities, and corporate/commercial projects. She has extensive experience in projects that require a sensitive approach to historic context and community concerns.

Ms. Lea has presented testimony as a landscape architect before the District of Columbia Zoning Commission, District of Columbia Public Space Committee, National Capital Planning Commission, Maryland National Capital Park and Planning Commission, Washington, DC Commission of Fine Arts and other similar authorities in other jurisdictions.

SELECTED PROJECT EXPERIENCE**American University, Open Space Master Plan and Renovation Plans for the Friedheim Quadrangle, Washington, DC****Project Manager**

CLIENT: American University

EDAW prepared an open space master plan and renovation plan for their key campus open space, the Friedheim Quadrangle. Design guidelines identifying hardscape materials, site furnishing and plants were also drafted.

American University, Katzen Arts Center, Washington, DC**Project Manager**

CLIENT: Einhorn Yaffee Prescott for American University

EDAW developed the landscape and open space design for the new Katzen Arts Center which will overlook Glover Gate, the main campus entrance, from across Massachusetts Avenue. The site design includes a water feature, locations for sculpture and incidental learning.

Brookside Gardens, Wheaton, MD**Project Manager**

CLIENT: Brookside Gardens

One of the Washington region's premier public gardens, with a renowned conservatory and interior plant exhibition program, commissioned EDAW to prepare a master plan for the gardens, grounds, and support facilities. A 90 acre in-holding of Wheaton Regional Park, Brookside Gardens is reinvigorating its image and renewing its status as one of the region's aesthetically outstanding public gardens, underpinned by a program of exhibitions, and outreach and educational programs.

Katzen Arts Center, Washington, DC**Project Manager**

CLIENT: American University

Landscape and open space design for the new Katzen Arts Center which will overlook Glover Gate, the main campus entrance, from across Massachusetts Avenue.

Catholic University Master Plan, Washington, DC**Project Manager/Senior Landscape Architect**

CLIENT: Catholic University

Master plan update for the campus, a requirement of the District of Columbia, and requisite given the university's recent embarkation on the development of a new strategic and academic plan.

MARSHA LEA, ASLA**Department of Transportation Site Security Studies, Washington, DC
Project Manager****CLIENT:** U.S. Department of Transportation

EDAW led a multi-disciplinary team in the investigation and definition of site security, and prepared concept designs for perimeter site security. Facilities studied included the Headquarters Building, the FAA Headquarters and the U.S. Coast Guard Headquarters in Washington, D.C., and the Volpe Transportation Research Center in Cambridge, Massachusetts.

**National Museum of American History, Washington, DC
Senior Designer****CLIENT:** Smithsonian Institution

Site planning and landscape design for renovation and modernization of the grounds of the museum, incorporating entrance pavilions, exhibit courtyards, and pedestrian plazas.

**Smithsonian Mall-Wide and Perimeter Security Plan, Washington, DC
Senior Designer****CLIENT:** Smithsonian Institution

Master plan for site security landscape and streetscape improvements encompassing the Smithsonian's buildings on the National Mall and its perimeter, in conformance with the National Capital Planning Commission's *Urban Design Security Plan*.

**Hillwood Museum Master Plan and Gardens and Grounds Renewal
Washington, DC
Project Manager****CLIENT:** Hillwood Museum Foundation

The 26-acre Washington, D.C. estate of Marjorie Merriweather Post is the home of one of the largest collection of Russian Imperial art outside Russia. The Master Plan provided for the conservation, renovation and re-invigoration of the multi-building site, which overlooks historic Rock Creek Park. Significant estate gardens, developed by Mrs. Post & Innocenti and Webel in the 1950's and 1960's over 19th Century remnants, are one of the region's best preserved examples from the era. A multi-year restoration program for gardens and grounds was completed under the terms of the master plan.

**Mount Vernon Orientation Center, Education Center and Museum,
Mount Vernon, VA
Project Manager****CLIENT:** Mount Vernon Ladies' Association

Landscape and site design for the integration of two new visitor facilities (an orientation center, museum and education center) on the edge of the estate's historic precinct.

**Gallaudet University Master Plan, Washington, DC
Project Manager, Campus Planner****CLIENT:** Einhorn Yaffee Prescott

EDAW assisted with the development of a master plan for the historic, Olmsted-designed university campus for the hearing impaired. A key element of the plan was the removal of the 70s-era library from its location in Kendall Green and restoration of the green as a premier campus open space around which several new buildings – including the replacement library – are located. The project included creating another green, around which new residence halls are grouped and reconfiguring parking around a landmark building to emphasize its setting. The master plan also addressed the elementary, middle and high school campuses, with proposals to replace and reorganize most of the lower schools' academic buildings and residence halls.

MARSHA LEA, ASLA**Women in Military Service for America Memorial (WIMSA) and Visitor's Center, Arlington, VA****Project Manager****CLIENT:** Women in Military Service for America Foundation

EDAW provided landscape architectural design services for the insertion of an underground visitor's commemorative facility behind the historic Hemicycle at the entrance to Arlington National Cemetery at the terminus of Memorial Avenue.

Tryon Palace, Historic Sites and Gardens Master Plan and Museum and Visitor Center Design, New Bern, NC**Project Manager****CLIENT:** BJAC, Architects and Quinn/Evans Architects

For the restored 18th century Governor's Palace, Gardens and related historic properties, EDAW assisted in the development of a master plan for the historic sites and gardens and their contiguous historic urban setting, and created a highly environmentally-responsible site plan and waterfront design that restores a 7-acre brownfield site, uses wetlands reconstruction for stormwater management and interpretation, and unifies the site with New Bern's downtown historic and waterfront district.

National Museum of the American Indian (NMAI) Cultural Resource Center, Suitland, MD**Project Manager****CLIENT:** Smithsonian Institution

Landscape and sustainable site design for the National Museum of the American Indian archival facility.

National Museum of the American Indian (NMAI), Washington, DC**Project Manager****CLIENT:** Smithsonian Institution

Built on the last remaining museum site on the National Mall, NMAI features an extension of museum exhibit philosophy out to the site perimeter, and includes outdoor exhibit and performance spaces, welcoming plaza, and a setting complementary with the cultural history and diversity of The Native American peoples and cultures of the Western hemisphere.

USDA Headquarters, Washington, DC**Design Principal****CLIENT:** National Capitol Planning Commission

For the three buildings comprising the United States Department of Agriculture headquarters, EDAW, through a task order with Shalom Baranes Architects, is providing site vehicular security planning and design. The chief administration building is the only government office building to occupy a site on the National Mall. Working with the National Capital Planning Commission's Urban Design Security Plan for Downtown Washington, and with the concept design for the Smithsonian museums on the Mall, for both of which EDAW was a co-author, EDAW has developed a rational vehicular defensive perimeter that is in keeping with the Beaux Arts character of the USDA buildings, and with the high-volume traffic corridor of 14th Street, a principal entrance artery into downtown Washington. The Holocaust Museum and the United States Mint, both significant visitor attractions, represent key adjacent buildings whose security perimeter, already in place, will inform the final design. Low fence and site walls, combined with protected vehicular entrances and pedestrian-friendly bollards, supported by a significant new street tree planting program, will be integrated into site and sidewalk areas around the buildings.

Keith C. Pitchford
Pitchford Associates, LLC
2213 40th Place, NW, #1, Washington, D.C. 20007
202-333-3851 / keith@pitchfordtrees.com

Registration 1991-present, ISA Certified Arborist MA-0178
 1989-present, Maryland, Licensed Tree Expert-#589
 2004 – Maryland, Licensed Forester #675

Years of Experience 15 years ISA certified arborist, 16 years as a consulting arborist.
 16 years Licensed Tree Expert in Maryland.

Work experience President/Arborist, Pitchford Associates, 1997-Present,
 Washington, DC
 Arborist/V.P., Branches Etc., Inc. Tree Experts, 1989-1996,
 Takoma Park, MD

Education University of Colorado, B.A., Environmental Conservation, 1980
 Yale University, Masters of Forest Science, 1984

Selected projects for Keith Pitchford

Architect of the Capitol, Washington, D.C.
September 2003

Hazard tree evaluation of larger trees on the main campus of the U.S. Capitol grounds. Project will involve the assesment of all trees larger than 16” of diameter to assess their hazard potential.

Architect of the Capitol, Office of the Landscape Architect of the Capitol
Capitol Square Perimeter Security Project and Vistor’s Center Project,
Washington, D.C.
March 2000- Present

Project arborist responsible for all aspects of specimen tree identification and protection efforts on US Capitol grounds. Pre-construction root zone examinations, preparation of tree care specifications, training classes for contractors, root zone protection area establishment, archival photography of entire project, selection and oversight of sub-contractors.

Tudor Place Historic Home and Garden, Washington, D.C.

June 2003

Prepared a hazard tree evaluation for several large trees located on the perimeter of the property. Detailed report included mycological analysis, photographs and management recommendations.

Casey Trees Endowment Fund, Washington, D.C.

June 2002 – Present

Have provided many hours of consulting to this new not-for-profit foundation established in Washington. Conducted workshops for training with their 'Citizen Forester' program. Also, co-authored training materials for this program and also to educate student interns and citizens who conducted the street tree inventory during the summer of 2002. Serve on their Technical Advisory Board.

District of Columbia, Urban Forestry Administration, Washington, D.C.

August 2003 – Present

Selected by the UFA to serve on their newly formed Technical Advisory Board. This six-member board will advise the UFA and Mayor on recommendations for street tree management throughout the District.

Dumbarton Oaks Library Extension Project, Washington, D.C.

July 1999 – Present

Consultant to James Urban Landscape Architecture. Responsible for all aspects of tree inventory, specimen tree identification, site analysis and environmental monitoring during all phases of construction. Project will involve the construction of a new library and archive within the historic gardens of Dumbarton Oaks.

At present this project involves the tree inventory, soil moisture monitoring through a series of 40 permanent soil moisture meters and pre-construction tree treatments. Long-term tree preservation work will begin when the final architectural drawings are complete and a final site plan is produced.

Washington National Cathedral

National Cathedral School Field House Project, Washington, D.C.

September 1998 – Present

Project arborist for construction projects on Washington National Cathedral campus including school expansion and installation of underground field house and parking garage. Responsibilities include specimen tree identification, pre-construction meetings with contractors, construction mitigation efforts and project oversight. Provide on-going arboricultural consulting to Director of horticulture and grounds maintenance.

***Downtown Silver Spring Development Project, Silver Spring, Maryland
September 1998 – Present***

Project arborist to James Urban Landscape Architecture (JULA). Provided initial tree inspections and pre-construction treatments for all trees impacted by this multi-phased downtown development project. Duties included assisting JULA in the preparation of tree preservation specifications. Oversight of tree preservation treatments.

***National Japanese American Memorial Project, Washington, DC
August 1999 – Present***

Arboricultural consultant to James Urban Landscape Architecture. Prepared tree inventory, tree care specifications and oversight during construction operations. Project included development of small corner park and installation of new curbing.

***VMS, Inc. National Highway System Asset Management Project, Washington, DC
July 2000 – Present***

Pitchford and Associates was selected by VMS, Inc. of Richmond, VA to be a subcontractor in their management of the National Highway System Asset Preservation project for Washington, DC. Duties include management training on modern arboriculture including power point presentation, tree inventories, preparation of arboricultural specifications, bid meeting consultation, oversight of all arboricultural treatments and the establishment and maintenance of tree care treatment data base.

***Mayor Anthony Williams transition team, Washington, DC
December 1998***

Keith Pitchford was chosen by newly elected DC Mayor Anthony Williams to be chair of the Tree Resource Study Group within his transition team. This group was to exhaustively investigate the operations of the DC Tree and Landscape Division. A team of local experts and concerned citizens were assembled to author a state of the urban forest report for newly elected Mayor Anthony Williams.

Professional appointments

Technical Advisory Board, Urban Forestry Administration, D.C. DDOT
Technical Adviosry Board, Casey Trees Endowment Fund, Wash. D.C.

STEPHEN E. CRUM, P.E.

TITLE: Senior Engineer/Principal

EXPERTISE: Civil Engineering

**EXPERIENCE WITH MACRIS, HENDRICKS AND GLASCOCK, P.A.
(1986 to present):**

- Project Engineer in charge of managing institutional, commercial, and industrial projects under design by Macris, Hendricks and Glascock, P.A. Responsibilities include: project coordination and scheduling, plan and specification preparation and review, and permit processing. Mr. Crum has also been qualified as an expert witness in civil engineering before several local review boards.

1983 to 1986

- Design Engineer in charge of the design of Stormwater Management Facilities and Storm Drainage Systems. Responsibilities included facility and or system design, plan and specification preparation, and construction inspection.

PAST EXPERIENCE:

- Worked with various civil engineers and land surveyors engaged in the design of roads, storm drains, sediment control and other related civil engineering projects for both government agencies and private clients.

EXPERIENCE AS EXPERT WITNESS:

- Office of the Zoning Hearing Examiner for Montgomery County, Maryland
- Board of Appeals for Montgomery County, Maryland
- Board of Appeals for City of Rockville, Maryland
- Planning Commission for City of Rockville, Maryland
- Board of Appeals for Prince George's County, Maryland
- Office of the Zoning Hearing Examiner for Prince George's County, Maryland
- District Council for Prince George's County, Maryland

Stephen E. Crum, P.E.

Page 2

ACADEMIC BACKGROUND:

- A.S. West Virginia Institute of Technology, 1977
- B.S.C.E. University of Maryland, 1983

PROFESSIONAL REGISTRATION:

- Professional Engineer, State of Maryland
Registered February, 1989

PROFESSIONAL AFFILIATIONS:

- American Society of Civil Engineers, Member
- Construction Specifications Institute, Member

PUBLICATIONS:

- "The Civil Engineering Degree - Education or Training"

AWARDS AND HONORS:

- American Society of Civil Engineers, Zone I
Daniel W. Mead Prize For Students, 1983
- Washington Society of Engineers, Young Engineer's Prize, 1983

SCOTT D. ROSER, P.E.

TITLE: Senior Engineer/Principal

EXPERTISE: Water Quality, Hydrology, and Hydraulics.

EXPERIENCE WITH MACRIS, HENDRICKS AND GLASCOCK, P.A.
(1985-Present):

- Design of both public and private storm drainage systems and stormwater management facilities.
- Preparation of applications for work in non-tidal wetlands and waterways.
- Watershed and stream studies to determine the effect of development on flooding and channel erosion. Design of measures to control channel erosion.
- Supervise the preparation of Natural Resource Inventory Maps and Critical Area Reports.
- Preparation of Phase I Environmental Assessments.

PAST EXPERIENCE:

- Staff Environmental Engineer, Dames and Moore (1984-1985)
- Review of technical information used to produce and revise Flood Insurance Studies for the Federal Emergency Management Agency
- Civil Engineer-Hydrologist,
Tennessee Valley Authority (1982-1984)
- Participation in the Huntsville, Alabama, urban drainage study, including calibrating hydrologic watershed models and evaluating the impacts or development and alternative mitigation measures.
- Computation of design floods and report drafting for community flood studies.

ACADEMIC BACKGROUND:

- M. E. Environmental Engineering,
The Pennsylvania State University, 1982

AREAS OF STUDY:

- Hydrology; Industrial Waste Treatment.
Hydrogeology; Water Quality Chemistry, Urban Hydrology; Stream and Estuary Analysis; River and Waterways Engineering
- B.S. Environmental Engineering,
The Pennsylvania State University, 1980
- Land Waste Disposal; Fundamentals of Air Pollution Control; Solid Waste Management

EXPERIENCE AS AN EXPERT WITNESS:

- Board of Appeals for Montgomery County, Maryland
- Zoning Hearing Examiner for Anne Arundel County, Maryland

PROFESSIONAL REGISTRATIONS:

- Registered Professional Engineer - Maryland

PROFESSIONAL AFFILIATIONS:

- Member, American Society of Civil Engineers
- Past President, Suburban Maryland Engineers Society
- Member, The National Association of Environmental Professionals

SELECTED PUBLICATIONS:

- Use of Limited Site-Specific Flood Information In Estimating Flood Peaks, TVA ONRED/AWR/89/23, July 1984
- Optimization of Secondary Cooling Water Filtration in a Continuous Stainless Steel Casting Process, Proceedings of the Purdue Industrial Waste Conference, May 1982

**Michael S. Rolband, P.E., P.W.S., P.W.D.
President**



Michael S. Rolband, the founder and President of Wetland Studies and Solutions, Inc., is a recognized leader in the analysis of wetlands and environmental engineering, including Chesapeake Bay Preservation Act Impacts, Wetland Delineation, Clean Water Act Permitting, and Wetland Mitigation Design and Banking. At the forefront of the continuing evolution of Chesapeake Bay Preservation ordinances in Northern Virginia localities, Mr. Rolband brings to his clients a reputation of expertise and a strong commitment to service and excellence. He has been responsible for significant industry innovations, such as the development of WETFORM™. WETFORM™, a computer software program that assists in the preparation of delineation data forms, is now being used across the U.S. by private firms, universities and Federal and State agencies.

Mr. Rolband conceptualized and spearheaded the development of Julie J. Metz Wetland Bank, North Fork Wetlands Bank, Cedar Run Wetlands Bank, and Bull Run Wetlands Bank. Julie J. Metz was first proposed in 1991 and subsequently became the first private wetland bank in Virginia approved by the U.S. Army Corps of Engineers in 1994. The bank now serves as a 200+-acre Prince William County Park with boardwalks and nature trails. The 125-acre North Fork Wetlands Bank was constructed in 1999 and subsequently donated to the National Capital Area Council of the Boy Scouts of America and is operated as Camp Snyder. Construction is complete on the first six phases of Cedar Run Wetlands Bank, with two more phases under construction. The Broad Run Wetlands Bank and Loudoun County Wetlands Bank are currently in the approval process under his direction.

Mr. Rolband is now serving as the lead principal in developing the Northern Virginia Stream Restoration Bank. After numerous small stream segments, WSSI is beginning the development of the first streambank in Virginia. Its first stream bank project will be the restoration of approximately 28 miles of streams in Reston, VA. Design work is underway and the approval process has begun, with the first phase of construction scheduled for 2005.

Mr. Rolband has testified before the U.S. Congress, and lectured to the U.S. Army Corps of Engineers and the Engineers and Surveyors Institute on wetland mitigation, wetland regulatory policy, and Chesapeake Bay Act Regulations on many occasions. In addition, Mr. Rolband was instrumental in developing Virginia's new wetlands laws in the 2000 legislative session, and was a member of the technical advisory committee that developed the subsequent regulations. As a result of his leadership, Mr. Rolband has been appointed to the following positions:

- Chesapeake Bay Local Assistance Board (1996-2001)

 - Northern Area Review Committee

 - Regulatory Committee

- Chesapeake Bay Local Assistance Program, Ad-hoc Workgroup (2003-2004), Regulation Review Committee (1994), Regulation Study Group (1991-1992), and Compliance Cost Study Outside Technical Reviewer (1991)

- Chesapeake Bay Preservation Act Guidance Ad Hoc Committee (2005)

- Commonwealth's Citizens Wetlands Advisory Committee (1999)

- Cornell University Civil and Environmental Engineering Advisory Council (2004 -- Present)

- Citizens Advisory Committee to the Chesapeake Executive Council (CEC) (1991-1994)

 - The CEC is composed of the Governors of Maryland, Pennsylvania and Virginia, the Mayor of Washington, D.C., the Administrator of the U.S. Environmental Protection Agency, and the Chairman of the Chesapeake Bay Commission

- Fairfax County Committee on Methods to Protect Wetlands During Implementation of Regional Storm Water Management Ponds (1992-1993)

- Fairfax County Storm Water Utility System Advisory Group (1996-1999; 2004)

- Governor's Natural Resources Leadership Summit (2003)

- Technical Advisory Committee (TAC) (2005)

 - TAC was formed to assist the Department of Environmental Quality (DEQ) with review and revisions to the Virginia Water Protection Permit (VWPP) General Permit regulations

- U.S. Army Corps of Engineers – Low Impact Development (LID) Stakeholder Group (2004)

 - Secretary of Natural Resources Ad-Hoc Committee on Chesapeake Bay Act Regulation Issues (2003)

- Virginia Department of Environmental Quality-Technical Advisory Committee on regulation development (2000, 2004, and 2005), and its Water Panel (1995), a panel with the charge to define, assess and make recommendations for improving the permit process

Certifications:

Professional Engineer, District of Columbia, Florida, Maryland, New York, Vermont, Virginia and West Virginia
Professional Wetland Scientist #000133, Society of Wetland Scientists Certification Program
U.S. Army Corps of Engineers Wetland Delineator Certificate # WDP 930810070A
Commonwealth of Virginia, Professional Wetland Delineator, #3402 000014

Affiliations and Memberships:

American Society of Civil Engineers, Associate Member
Engineers and Surveyors Institute, Member
Home Builders Association of Virginia, Member
National Association of Home Builders, Member, Clean Water Act Subcommittee
National Association of Mitigation Banking, Founding Member
Northern Virginia Building Industry Association
Northern Virginia NAIOP, Life Director
Society of Wetland Scientists, Member
U.S. Green Building Council, Member
Virginia Association of Wetland Professionals, Member

Awards:

NAIOP's Member of the Year, 1993, 2001
NVBIA's Special Chapter Service Award for Outstanding Service in Fairfax County Chesapeake Bay Ordinance Initiatives, 1993
State of Maryland's Governor's Salute to Excellence Award for Chesapeake Bay Watershed Improvement, 1994
Engineers and Surveyors Institute, Technical Associate of the Year, 1996
HBVA's Associate of the Year, 2000
The Boy Scouts of America National Capital Area Council's Character Counts Award, 2000
Commonwealth of Virginia's Governor's Patrick Henry Award, 2001

Publications:

Delineations Call for Adjustment in Northeast Wetland Plant Indicator List. *National Wetlands Newsletter*. March-April 2003
A Comparison of Wetland Areas in Northern Virginia: National Wetland Inventory Maps versus Field Delineated Wetlands Under the 1987 Manual. 1995. *Wetland Journal*. Vol.7. No.1
Wetlands Banking for Sound Mitigation? Yes, Virginia. 1999. *National Wetlands Newsletter*. Vol. 21. No. 3
Wetlands Mitigation Banking, Ch 7. *Applied Wetlands Science and Technology*. 2nd Edition. 2001

Speaking Engagements:

Northern Virginia Chapter of the American Planning Association, Low Impact Development (LID) Design, Arlington, VA (2006)
Virginia Continuing Legal Education (CLE), 7th Annual Advanced Real Estate Conference, "Battle over the Bay" Point/Counterpoint (2003)
U.S. Army Corps of Engineers, Consultants Perspective on Section 404; Executive Training Session: Springfield, VA (1997-2002); Regulatory II-B Training Class: Huntsville, AL; Jacksonville, FL; Virginia Beach, VA; St. Louis, MO; and Phoenix, AZ; (1996-2005)
Civil and Geotechnical Engineering Aspects of Wetland Mitigation Design; Norfolk District of the U.S. Army Corps of Engineers, 1994
NAIOP, New Federal Wetland Regulations, 1997, 1999, and 2002
NAIOP/U.S. Army Corps of Engineers, The Development Process and Water Resources, Ashland, VA, 1996
Riparian Forest Buffer (RFB) Panel, Chesapeake Bay Program, Invited Speaker on Implications of Various Stream Definitions relative to RFB's, 1997

Michael S. Rolband, P.E., P.W.S., P.W.D. (Cont'd)

Environmental Permitting: VPDES, Chesapeake Bay and Wetlands; Engineers & Surveyors Institute, sessions in 1994-2001

Speaking Engagements (Cont'd):

Chesapeake Bay Preservation Ordinance; Engineers & Surveyors Institute, sessions in 1994-2001
Wetlands, EQC and Chesapeake Bay Ordinances; Numerous law and engineering firms and land developers in Northern Virginia each year since 1991
American Law Institute-American Bar Association Wetlands Law and Regulation Conference, Washington, D.C., Lecturer, 2000, 2001, 2002, and 2004
Transportation Research Board Annual Meeting, Guest Lecturer in Wetlands Regulation and Compliance, 2002
Terrene Institute, National Mitigation Banking Conference, Guest Lecturer and Trip Leader, 1998, 1999, 2002

Education:

Cornell University, Ithaca, New York
Master of Business Administration (Finance) 1982
Master of Engineering (Civil) - Geotechnical Major 1981
Bachelor of Science (Civil and Environmental Engineering) 1980

Continuing Education:

Mr. Rolband maintains a comprehensive continuing education coursework portfolio including the following:

River Restoration Design Implementation, (Level V), Dave Rosgen/Wildland Hydrology
River Restoration and Natural Channel Design, (Level IV), Dave Rosgen/Wildland Hydrology
River Assessment and Monitoring, (Level III), Dave Rosgen/Wildland Hydrology
River Morphology & Application, (Level II), Dave Rosgen/Wildland Hydrology
Applied Fluvial Geomorphology, (Level I), Dave Rosgen/Wildland Hydrology
Composites, In-House Training Session by Bill Sipple, EPA
Design of Stormwater Control Outlets, Engineers and Surveyors Institute
Disturbed and Problem Areas, Wetland Training Institute
Floodplain Hydrology & Watershed Modeling Workshop, HEC-1, Haestad Methods
Grass Identification, USDA Graduate School
Hydric Soils, In-House Training Session by Blake Parker (SCS Retired)
Hydric Soils, NOVA Community College
Identification of Grasses, Cook College, Rutgers University
Innovative BMPs, Engineers and Surveyors Institute
Nationwide Permits, Wetland Training Institute
Plant Identification, Wetland Training Institute
Practice of Wetland Construction, Southern Tier Consulting
Spring Flower Identification, USDA Graduate School
Urban Stormwater Management/Detention Pond Design, Haestad Methods
Water Surface Profiles Workshop, HEC-2 and HEC-RAS, Haestad Methods
Winter Botany, Wetland Training Institute
Wetland Construction and Restoration, Wetland Training Institute
Wetland Delineation (1989 Manual), Wetland Training Institute
Wetland Ecology, University of North Carolina
Wetland Evaluation Technique (WET 2.1), Wetland Training Institute
Wetland Plant Field ID, NOVA Community College
Winter Plant ID, NOVA Community College

Craig E. Tumer, P.W.S., P.W.D.
Principal Environmental Scientist



Mr. Tumer has more than 16 years experience with wetlands, water resources, and floral and faunal identification and habitat evaluations in both the private and public sectors. He has performed numerous wetland assessments, stream assessments, delineations and permit applications for sites ranging in size from less than 5 acres to more than 800 acres.

His aquatic resource experience includes wetland delineation; wetland functional analysis; compensatory wetland creation and restoration design, planting, and monitoring; streambank restoration; and wetland-dependant plant and wildlife habitat evaluations. He is experienced in the preparation and review of National Environmental Policy Act documents and environmental constraints analyses; particularly those sections dealing with wetlands, water resources, wildlife habitat, and rare and endangered species issues. In addition, Mr. Tumer is versed in the application of stream assessment protocols developed by the North Carolina Division of Water Quality and the Fairfax County Department of Public Works and Environmental Services to distinguish between ephemeral, intermittent, and perennial streams. He is experienced in the collection of benthic macroinvertebrates for water quality analysis, and has conducted habitat evaluations for rare, threatened and endangered plant and animal species throughout New England, North Carolina, and Virginia. He is also an avid ornithologist, known for spending his free time birding locally and throughout the world.

Prior to joining WSSI, Mr. Tumer was employed with Vanasse Hangen Brustlin, Inc. (Watertown, MA) where his primary responsibilities included wetland delineation and wetland and water quality permit application preparation for compliance with federal, state and local regulatory requirements.

Certifications:

Professional Wetland Delineator, VDPOR Board of Professional Soil Scientists and Wetland Delineators
Professional Wetland Scientist, Society of Wetland Scientists Certification Program, Inc.
U.S. Fish and Wildlife Service, Registered Small Whorled Pogonia Surveyor
Certified Water Quality Monitor (family level team leader), Audubon Naturalist Society
American Red Cross Standard First Aid, Dec 2004
American Red Cross Adult CPR/AED, Dec 2004

Professional Affiliations and Memberships:

Society of Wetlands Scientists, Member
Virginia Association of Wetland Professionals, Member
American Ornithologist Union, Member
Cooper Ornithological Society, Member

Education:

College of William and Mary, Williamsburg, VA
Bachelor of Science in Biology

Continuing Education:

Applied Fluvial Geomorphology, (Level I), Dave Rosgen/Wildland Hydrology
River Morphology & Application, (Level II), Dave Rosgen/Wildland Hydrology
Advanced Soils and Hydrology, Wetland Training Institute
Conservation Design, Engineers & Surveyors Institute
Wetland Evaluation Technique (WET II), National Highway Institute
Hydric Soils, In-House Training Session by Blake Parker (SCS Retired)
Coastal Botany, Virginia Institute of Marine Science
Creation and Restoration of Wetlands for the Mitigation of Wetland Loss, The Ohio State University
Wetland Delineation, Environmental Concern, Inc.
MacroInvertebrate ID2, Audubon Naturalist Society
Monitoring Protocol Practicum, Audubon Naturalist Society
1997 Nationwide Permits, Wetland Training Institute
2000 Nationwide Permits, Wetland Training Institute

Craig E. Turner, P.W.S. (Cont'd)

Soils Taxonomy and Classification, J.W. Teaford & Co.

National Hydric Soils Workshop, Wetlands Regulatory Workgroup Mid-Atlantic Hydric Soils Committee

EPT Taxa: Ephemeroptera, Plecoptera and Trichoptera – Systematics and Biomonitoring, Humboldt
Field Research Institute.

Intermittent and Perennial Stream Identification for Riparian Buffer Rule Applications, Forestry

Educational Outreach Program NCSU, Department of Forestry & Wetlands/401 Unit DC Division of
Water Quality

MARTIN J. WELLS, P.E.
PRESIDENT

PROFILE:

Mr. Wells has 30 years of experience in traffic, transportation, transit, parking, and pedestrian planning and engineering. He has worked for private real estate developers; federal, state, and local governments; and institutions in 30 states and overseas. This experience includes traffic impact studies, transportation analyses of mixed-use developments, travel demand management studies, parking policy and needs studies, transit planning, and highway and parking facility design. Mr. Wells has provided expert testimony before numerous planning boards, elected officials, administrative hearing officers, and citizens groups.

EXPERIENCE:

Traffic Impact Studies. Conducted numerous traffic impact studies for large and small residential, commercial, and mixed-use projects in every major jurisdiction in the Washington metropolitan area and in 15 other states. This includes preparation of reports and expert testimony in support of rezoning, subdivisions, site plan approvals, and comprehensive plan and proffered condition amendments.

Mixed-Use/Town Center Developments. Conducted multi-modal transportation studies for 12 million square foot mixed-use residential, office, retail, and hotel projects for the Potomac Yard in Alexandria/Arlington, Virginia; Reston Town Center, Fairfax County, Virginia; The Village at Shirlington, Arlington County, Virginia; Columbia, Maryland; WorldCom and Evergreen Mills in Loudoun County, Virginia; The Gallery at Harborplace in Baltimore, Maryland; Carlyle and Mark Center in Alexandria, Virginia; Xerox Landsdowne in Loudoun County, Virginia; Colgate-Palmolive Company in Jersey City, New Jersey; River Walk in New York City; Eden Isles in Slidell, Louisiana.

Major Event Use Studies. Prepared traffic, parking, and traffic management plans for stadiums and entertainment complexes including: The John F. Kennedy Center for the Performing Arts in the District of Columbia; FedEx Field (Washington Redskins), Landover, Maryland; Jordan Hare Stadium, Auburn, Alabama; Arlington County Major League Baseball Stadium; Merriweather Post Pavilion, Columbia, Maryland; Nissan Pavilion, Prince William County, Virginia; Middle River Racing Associates in Anne Arundel County, Maryland; and Oriole Park at Camden Yards, Baltimore, Maryland.

Interchange Justification Studies. Conducted studies for modifying existing interchanges and for new interchanges on Interstate highways in Virginia, Maryland, New Jersey, Texas, and Louisiana.

Travel Demand Management Studies. Developed travel demand management programs, including: group riding, transit, flexible work hour, and other actions, for major development projects in Montgomery and Prince George's County, Maryland; and Arlington County, Alexandria, Vienna, and Fairfax County, Virginia.

Travel Demand Forecasting. Forecasted regional and corridor travel demand in Arlington, Fairfax, and Loudoun County, Virginia; Jersey City, New Jersey; Columbia, Gaithersburg, Howard County, and Prince George's County, Maryland; Arlington, Virginia; Birmingham, Alabama; Fort Meyers, Florida; and Buenos Aires, Argentina.

Neighborhood Traffic Management Studies. Identified actions to reduce through traffic and vehicle speeds in East Bethesda, Chevy Chase Section IV, Maryland; Fairfax County, Virginia; and Paulus Hook, Jersey City, New Jersey.

Retail Traffic and Parking Studies. Prepared traffic, parking, transit, and pedestrian studies for Main Street, town center, regional shopping centers, large-scale value retail centers, and power strip centers in Arlington, Fairfax County, Loudoun County, and Richmond, Virginia; Owings Mills, Baltimore City, Columbia, Gaithersburg, Anne Arundel County, and Prince George's County, Maryland; North Barrington, Illinois; Atlanta, Georgia; Plano, San Antonio, and Fort Worth, Texas; Coral Gables, Tampa, and Orlando, Florida; New Haven, Connecticut; Boston, Massachusetts; and Puebla, Mexico.

Parking Studies. Conducted parking policy, needs, feasibility, and shared-use studies for public agencies, parking operators, and real estate developers, including: the District of Columbia; Arlington County, Fairfax County, Loudoun County, Alexandria, and Middleburg, Virginia; Montgomery, Prince George's, and Howard Counties, Maryland; Nashville/Davidson County and Memphis, Tennessee; Hartford, Connecticut; Coral Gables and Jacksonville, Florida; Syracuse, New York; the Washington Metropolitan Transit Authority; and The Rouse Company.

Transit Station Impact Analyses. Conducted site access, joint development, parking, and pedestrian impact studies at numerous bus and rail transit stations in the Northeast Corridor, metropolitan Washington, San Antonio, Atlanta, Jersey City, and Buenos Aires, Argentina.

Transit Studies. Devised transit circulator systems for various downtowns and major activity centers, and prepared transit development programs throughout Pennsylvania and North Carolina.

Health Care Facilities. Prepared traffic and parking plans for hospitals, universities, professional office buildings, and nursing homes, including: the Yale-New Haven Medical Center; Georgetown University Medical Center; Fairfax (Virginia) Hospital; Inova Fairfax (Virginia) Hospital; Fair Oaks (Virginia) Hospital; Washington Adventist Hospital; Shady Grove Adventist Hospital; Montgomery County, Maryland; Washington Hospital Center; Loudoun Memorial Hospital; Mission Memorial Hospital, Asheville, North Carolina; Baptist Medical Center, Birmingham, Alabama; and University of Rochester.

Schools. Conducted traffic, parking, bus, and pedestrian analyses of public and private elementary, middle, and high schools, including: Cranbrook, Bloomfield Hills, Michigan; St. Patrick's Episcopal Day School, Washington, D.C.; Edmund Burke School, Washington, D.C.; Sidwell Friends School, Washington, D.C. and Bethesda, Maryland; The Sheridan School, Washington, D.C.; The Potomac School, McLean, Virginia; The Langley School, Fairfax County, Virginia; French School, Montgomery County, Maryland; Garrison Forest School, Baltimore County, Maryland; and public schools in Arlington and Fairfax County, Virginia, and Montgomery and Howard County, Maryland.

Environmental Impact Studies. Prepared the transportation components of environmental documents in Washington, D.C.; Prince George's County, Maryland; New York, New York; Jersey City, New Jersey; Slidell, Louisiana; and Charleston, South Carolina.

EDUCATION: Master of Science, Civil Engineering, Carnegie-Mellon University, Pittsburgh, Pennsylvania, 1975.

Bachelor of Science, Civil Engineering, Wayne State University, Detroit, Michigan, 1973.

REGISTRATIONS: Registered Professional Engineer: Virginia, Maryland, New Jersey, Florida, Illinois, Texas, Pennsylvania, Colorado, Ohio, Missouri, Connecticut, North Carolina, New York, Michigan, West Virginia, Indiana, Oregon, and the District of Columbia.

AFFILIATIONS: Institute of Transportation Engineers
American Planning Association
Congress for the New Urbanism

PUBLICATIONS: "Colgate-Palmolive Site Traffic Impact Assessment Case Study," American Society of Civil Engineers, Site Impact Traffic Assessment Conference, June 1992.

"Neo-Traditional Neighbor Developments: Can You Go Home Again?," National Trust for Historic Preservation, National Meeting on Main Street, April 1992.

"Parking and Easy Access - The First Steps Toward Recovery," Health Facilities Management Magazine, December 1991.

"Review of Methods for Assigning Work to Part-Time Operators," Annual Meeting of the Transportation Research Board, Washington, D.C., 1985.

"Integrating Public Transportation into the San Antonio, Texas Street System," International Public Works Congress and Equipment Show, Atlanta, Georgia, 1981.

"Neighborhood Automobile Restraint: The Chevy Chase Section Four, Maryland Experience," Annual Meeting of the Transportation Research Board, 1981.

"Planning for Shared-Ride Taxi Service," 58th Annual Meeting of the Institute of Transportation Engineers, 1978.

EMPLOYMENT HISTORY

1991 - Present **Wells & Associates, LLC**
McLean, Virginia
President

Responsible for business development, administration, management of professional, technical, and clerical staff, technical analyses, quality control, documentation, and expert testimony.

1981 - 1991 **Gorove/Slade Associates, Inc.**
Washington, D.C.
Principal Associate

Responsible for the transportation planning practice. Responsibilities included business development, project administration, management of professional, technical, and clerical staff, technical analyses, quality control, documentation, and expert testimony.

1980 - 1981 **San Antonio Metropolitan Transit Authority (VIA)**
San Antonio, Texas
Director of Planning

Responsible for long-range, short-range, and day-to-day operations planning for a 550-bus transit system serving a metropolitan area of over 1,000,000 people.

1975 - 1980 **Barton-Aschman Associates, Inc.**
Washington, D.C.
Associate/Senior Associate

Responsible for transportation planning, transit planning, and traffic engineering analyses.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of this letter and enclosure was hand delivered to the addresses below on February 15, 2005.



Phil Feola

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