

SCHAMU MACHOWSKI GRECO

February 11, 2009

Ms. Roberta Wagner, Senior Buyer
Purchasing Division
P.O. Box 50130
Charleston, WV 25305-4115

Re: West Virginia Department of Health and Human Resources
Laboratory Services Facility Improvement Projects
Letter of Interest for LBS90030

Dear Ms. Wagner,

Please accept this letter expressing our interest in the opportunity to provide design services for Health and Human Resources Laboratory Services Facility Improvement Projects LBS90030. We at SMG Architects are proud of our extensive portfolio of laboratory design projects.

SMG Architects was founded in 1982. Today the firm is headquartered in Baltimore's Mount Vernon district and we have a second office in Wheeling, West Virginia. Principals Walter Schamu and Tony Machowski in Baltimore and Victor Greco in Wheeling share hands-on design, management and production responsibilities as part of the firm's team approach. Through the use of a common file server and a linked computer network, the two offices easily exchange information. Personnel from both offices work together in a concerted effort when project deadlines require.

We propose a project team consisting of;

SMG Architects	Project Lead / Architectural Services
Burdette Koehler Murphy & Assoc.	MEP Design Services
KCI Technologies	Structural & Civil Engineering Services

SMG has depth of experience with both BKM and KCI. BKM has provided mechanical and electrical design for the majority of SMG laboratory projects including the projects with NIOSH in Morgantown WV and with WVSDS in Romney WV. KCI has provided civil engineering for SMG's laboratory projects with Johns Hopkins School of Medicine and Johns Hopkins Real Estate. KCI has a branch office in Morgantown, WV. Both BKM and KCI are part of SMG's team for the current five-year IDIQ contract with the US E.P.A.

Between 1994 and 2002 SMG and BKM held successive Open-End contracts with CDC / NIOSH to assess, recommend, program and design a complete renovation to the 90,000 sf NIOSH laboratory facility in Morgantown, WV. The scope of work and list of Task Orders performed for that contract are very similar to your project description. Our work is described in detail in the attached pages.

MARYLAND:

1016 MORTON ST
BALTIMORE MD 21201
TEL 410 685 3582
FAX 410 625 4790

WEST VIRGINIA:

14TH & CHAPLINE ST
SUITE 505
WHEELING WV 26003
TEL 304 233 0048
FAX 304 233 7564
WWW.SMGARCH.COM



Ms. Roberta Wagner
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page 2

I would serve as Principal-in-Charge of the project team and be directly involved on a daily basis, similar to my role in the NIOSH projects Charles Boyles or Wendy Scatterday would fill the role of Project Architect. They would orchestrate the flow of information to, from and among the design team and manage all document production. I would assume direct daily responsibility for the project during construction phases utilizing my many years of construction phase management experience.

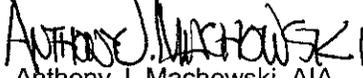
We offer the following references;

Mr. Denzil Slaughter, NIOSH Morgantown WV	304-285-6100
Mr. Kristin Willard, West Virginia Schools for the Deaf and Blind, Romney WV	304-822-4810
Mr Matt Strott, Johns Hopkins Real Estate, Baltimore, MD	410-997-3745
Mr. Jeffrey A. Turner, Ohio County Schools, Wheeling, WV	304-243-0431
Mr. John McCullough, West Liberty State College, West Liberty, WV	304-336-8340

We look forward to an opportunity to discuss our qualifications with you in greater detail. Please call if you have any questions.

Sincerely,

Schamu Machowski Greco Architects, Inc.


Anthony J. Machowski, AIA
Vice President

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: SMG ARCHITECTS
Authorized Signature: A. WACHOWSKI Date: FEB. 11, 2009



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

BFO NUMBER:
 LBS90030

PAGE:
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ADDRESS CORRESPONDENCE TO ATTENTION OF:
 ROBERTA WAGNER
 304-558-0067

RFQ COPY

VENDOR

Anthony Machowski
 SMG Architects
 1016 Morton Street
 Baltimore, MD 21201

SHIP TO

HEALTH AND HUMAN RESOURCES
 BPH - LABORATORY SERVICES
 167-ELEVENTH AVENUE
 SOUTH CHARLESTON, WV
 25303 304-558-3530

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
01/28/2009				

BID OPENING DATE: 02/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
1. QUESTIONS AND ANSWERS ARE ATTACHED.						
2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.						
EXHIBIT 10						
REQUISITION NO. : LBS90030						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1 <input checked="" type="checkbox"/>						
NO. 2 <input type="checkbox"/>						
NO. 3 <input type="checkbox"/>						
NO. 4 <input type="checkbox"/>						
NO. 5 <input type="checkbox"/>						
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

RECEIVED

2009 FEB 12 AM 9:59

WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE ANTHONY J. MACHOWSKI	TELEPHONE 410-685-3582	DATE FEB 11, 2009
TITLE V. PRES.	FEIN 521322112	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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 Department of Administration
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<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"> <i>A. MACHOWSKI</i> SIGNATURE <i>SMG ARCH</i> COMPANY <i>FEB 11, 2009</i> DATE </p> <p>REV. 11/96</p> <p style="text-align: center;">END OF ADDENDUM NO. 1</p>						

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PROPERTY

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0001	1	JB		906-00-00-001		
EXPRESSION OF INTEREST - ARCHITECTURAL/ENGINEERING						
***** THIS IS THE END OF RFQ LBS90030 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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 TITLE: V. PRES. FEIN: 52 32 211 2 ADDRESS CHANGES TO BE NOTED ABOVE

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SCHAMU MACHOWSKI GRECO

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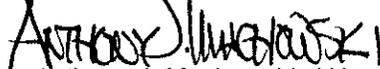
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Schamu Machowski Greco Architects, Inc.


Anthony J. Machowski, AIA
Vice President

SMG LABORATORY DESIGN EXPERIENCE – GENERAL

SMG's laboratory design experience began in 1986 with ongoing projects for the **Johns Hopkins School of Medicine**. Working closely with the facilities department and individual researchers we completed approximately **25 lab renovation projects from 1986 to 1989**, ranging from several hundred square feet in size to several thousand. Services were provided from schematic design through construction and occupancy. Projects typically were renovations in a limited-space, in-use environment requiring us to accommodate specific research protocol and new equipment. **This work allowed us to create and evolve a basic design approach and procedure to ensure complete accommodation of the process and coordination of all components, services, and equipment required for a biomedical wet lab operation. We took the time to understand the needs of the individual in a laboratory environment.**

In 1989 SMG also began to provide laboratory design services to **Johns Hopkins Hospital**. We have completed approximately **10 laboratory renovations since that time**. These projects were as large as 6,500 square feet and involved complete demolition of existing lab areas with fit-out for specific new research programs. The work was primarily biomedical wet labs including specialties such as bio-safety level-3 labs, animal holding, environmental rooms, and EMF shielding. Major equipment included fume and radio-isotope hoods, biological safety cabinets, autoclaves, glass washers, and pure water systems.

Johns Hopkins Real Estate (Dome Real Estate), a Real Estate & Services affiliate of the Johns Hopkins Institutions, became a client in 1993. SMG's laboratory design work has continued to grow in size and sophistication. Our work with JHRE has consisted of biomedical wet-lab fit-out design at the Johns Hopkins Bayview Research Campus in East Baltimore. The projects include;

Addiction Research Center for The National Institute on Drug Abuse at the Triad Technology Center; 10,000 sq ft of wet labs including 3500 sq ft of animal housing with cart and cage washing facilities (tunnel wash and pass thru autoclave), and holding and procedure rooms for transgenic mice.

Molecular Tool Inc. at the Alpha Center; 8,500 sq ft production and research lab for the development and commercialization of high-volume low-cost analysis of DNA sequence variation. The facility included a robotics based process line, a wet lab research area, support spaces and administrative offices.

Center for Inherited Disease Research, NIH National Human Genome Research Institute at the Triad Technology Center; Demolition and fit-out of 14,000 sq. ft. of wet laboratories and data analysis equipment. The Center provides a centralized facility to provide genotyping and statistical genetics services to identify genes that contribute to human disease

National Institute on Aging, Gerontology Research Center, Laboratory of Genetics at the Triad Technology Center; demolition and fit-out of 8,000 sq. ft. of wet laboratories. The laboratory studies cellular influence on aging through DNA sequencing and mapping.

National Institute on Aging, National Institute on Drug Abuse, Center for Inherited Disease Research, and Infrastructure Upgrades at the Triad Technology Center; demolition and fit-out for 13,000 sf of wet laboratory, office and support space for the NIA, 3,200 sf of wet lab for two senior researchers with the NIDA, and 5,000 sf of wet laboratories and offices for CIDR. Infrastructure upgrades were required to incorporate former office space for laboratory use.

SMG was chosen in 1994 by **The Centers for Disease Control and Prevention** to provide architectural services for a **2-year open-end contract** for a building evaluation study and infrastructure upgrade for **The National Institute for Occupational Safety and Health, Appalachian Laboratories in Morgantown, West Virginia**, an 90,000 gsf H-shaped laboratory building. Work under this open-end contract included;

A complete **Infrastructure Investigation** and report documenting existing conditions, recommending infrastructure repairs/improvements, and establishing criteria for subsequent design upgrades.

Exterior Window Replacement (430 windows), **new Site Landscaping**, **new Passenger Elevator**, **HVAC Upgrades**, **Roof/Parapet Repairs**, **Electrical Switchgear and Distribution Upgrade** and **new Lightning Protection System**.

Following the successful completion of the 2-year open-end contract SMG was again chosen in 1996 by **CDC & NIOSH** to provide architectural services for a subsequent **5-year open-end contract** to carry forward the recommended modifications to the Appalachian laboratories building. Work under this open-end contract included;

Animal Housing Facility; an existing 4000 gsf animal area was demolished and replaced with a new 8500 gsf facility including new tunnel washer and dryer and a refurbished rack washer. The project was built in two phases allowing the existing facility to continue operation during construction. The project also included a 3500 gsf **Central Inhalation Unit** added to the rooftop of the existing building using light gage metal framing and insulated metal panels

H-Building Renovation; 30,000 gsf of laboratory space and 40,000 gsf of support and office space in an existing 25-year-old building devoted primarily to the investigation of air borne pathogens in the workplace environment. Existing labs were gutted and replaced with upgraded, research specific wet laboratory space, refitted support space and restructured and reconfigured office space. A detailed relocation plan and multi-phased construction allowed the building to continue in service during the renovation.

SMG returned to the **Triad Technology Center** on **The Johns Hopkins Bayview Research Campus** in Baltimore to perform additional laboratory and infrastructure renovation work for **Staubach Global Services** who represent the building's new owners. Work to date has included;

National Institute on Drug Abuse Third Floor Renovation; 15,000 sf of demolition and fit-out of Neurobiological and Electrophysiological laboratories requiring specialized equipment such as electrically shielded rooms and Faraday Cage work stations, imaging equipment, and six custom 8'-0" fume hoods.

National Institute on Drug Abuse Second & Fourth Floor Renovation; 2,500 sf of wet lab renovation, new chemical storage and chemical and radiation waste storage/packaging area of 1,500 sf and 2,500 sf of temporary animal holding rooms. We also provided an ADA survey for the entire (100,000 sf) facility along with design of a new accessible main entry, reception station and atrium conference room.

National Institute on Drug Abuse First & Fourth Floor Renovation; This project consists primarily of a gut & fit-out of an existing vivarium to provide a new 10,000 sf **Vivarium** which includes a new tunnel washer/ dryer with a slurry waste dump station and automatic bedding dispenser as well as a new rack washer. The space was designed in accordance with NIH Vivarium Design Standards and AAALAC requirements.

In 2006 SMG Architects was chosen to provide **Architectural Design Services** and serve as **Prime Consultant** for a **five-year Indefinite Delivery Contract with the United States Environmental Protection Agency (US E.P.A.)**. This contract has just begun the third year. The first task order under this contract requested SMG to study the feasibility to convert 30,000 sf of a historic warehouse in Edison, NJ for use as a modern, technical, research laboratory environment to house US E.P.A. Emergency Response Team activities. SMG investigated sufficiency of the existing structure, completely new mechanical, plumbing, electrical and IT infrastructure, building code compliance and new fire protection systems. The recommendations from this assessment are being evaluated by the US E.P.A. for further action. SMG also recently completed evaluations and preliminary design for green roof installations of

approximately 15,000 sf on two additional buildings in Edison. These evaluations are also under consideration.

Our project list also includes **Private Sector and Educational Projects;**

Paragon Bioservices, Inc.;	Modifications to a bioservice production company
Mine Safety Appliances;	A pilot manufacturing line for lithium batteries utilizing dry-room technology.
Howard Hughes Medical Center;	A teaching laboratory @ UMBC.
JHU School of Medicine, Montgomery Co.;	Several teaching laboratory projects
Catonsville Comm. Coll.;	Teaching laboratory.
Anne Arundel Co. Schools;	High school science department renovations.

Standards & Guideline Material SMG typically utilizes during the laboratory design process include;

- Research Laboratories/NIH Design Policy and Guidelines**
- Vivariums/NIH Design Policy and Guidelines**
- Guide for the Care & Use of Laboratory Animals/ILAR & AAALAC recommended**
- Biosafety in Microbiological & Biomedical Laboratories/CDC & NIH**
- Guidelines for Laboratory Design, Health & Safety Considerations/Third Edition**
- NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals**

SMG LABORATORY DESIGN EXPERIENCE SPECIFIC TO THIS PROJECT

In 1996 SMG Architects (SMG) and Burdette Koehler Murphy & Associates (BKM) were chosen for a **Two-year IDIQ Contract** with the **Centers for Disease Control and Prevention and the National Institute for Occupational Safety and Health** that evolved into a seven year infrastructure evaluation and complete facility upgrade of the **NIOSH laboratory facility in Morgantown, WVA**. Our work on this Contract included many of the tasks described in your project outline.

The first phase of this contract was a **Building Evaluation Study & Infrastructure Upgrades**. The work was accomplished by individual Task Orders. The facility consisted of a 90,000 sq ft, 25 year old H-shaped building with a 3-story laboratory wing, a 3-story office wing and 3-story support services connecting wing.

Task Order #1 - Building Evaluation Study; involved the preparation of a facility condition report and infrastructure assessment, upgrade strategies and design guidelines, cost and time estimates, Life Safety Code modifications, accessibility studies, energy conservation and efficiency studies and preliminary architectural programming. This extensive document set the baseline for the work to be accomplished during the next six years.

Task Order #2 - Window Replacement; began the implementation of the Evaluation Study recommendations. A Contractor was hired for the replacement of all existing 430 exterior windows with fixed, insulated, low-E units. SMG designed and scheduled the work to allow installation to occur with minimal interruption to facility operations.

Task Order #3 - Passenger Elevator / Mechanical Upgrade; SMG designed the installation of a new passenger elevator in place of a redundant central stair. BKM designed basic mechanical infrastructure renovations which utilized a portion of the central stair space for new duct and piping risers.

Task Order #4 - Roofing; involved the repair of existing roofing and the installation of a new parapet flashing detail for the entire building. The original roof flashing detail into the precast structural curtain wall had severely deteriorated over time and SMG provided new details and a roofing specification.

Task Orders #5 & #6 - Mechanical and Electrical Infrastructure Upgrades; and preparation for future renovations. The existing cooling towers and roof top HVAC equipment was replaced with new and the main building switchgear was replaced.

Task Order #7 - Sitework; contracted for the installation of new landscaping, walkways, and signage for the NIOSH Morgantown, W VA Campus.

At the end of the first phase of the contract CDC and NIOSH re-advertised for a **Five Year IDIQ Contract** to continue the renovations of H-Building. SMG and BKM were also selected for this contract.

The First Task Order, Second Phase - Vivarium Renovation; an existing animal care facility (4000 gsf) was replaced with a new 8500 gsf facility designed to be constructed in two phases. A **3500 gsf roof-top addition** Central Inhalation Unit completed the project.

SMG programmed the renovation, designed the improvements, and planned the logistics for a two-phase construction project to allow the existing animal area to continue in operation during construction. Down time was limited to moving equipment and animals into the renovated areas.

Finishes comply with AAALAC accreditation requirements for non-porous, durable, easily cleaned surfaces and feature trowel applied seamless epoxy-resin flooring with a self-rolled base and a veneer plaster wall and ceiling system with a mildew-resistant, specialized elastomeric waterborne acrylate coating.

The cage and rack handling area includes a dirty side with a bedding dump, hose-down station, a new

rack and cage washing area with a new tunnel washer and dryer, and a rebuilt existing pit-mounted rack washer. The clean side includes an automatic bedding dispenser, autoclave, cage preparation area, and feed/bedding storage.

Individual mouse holding rooms, rat and guinea pig holding rooms, and procedure rooms have been designed for the latest technology micro-isolator cages which are directly connected to hepa-filtered air for an additional level of isolation. Inhalation Unit rooms include a combination of wet lab facilities and individual inhalation chambers. The animal care area can accommodate 600 rat and guinea pig cages and 1260 mouse cages. The inhalation unit houses an additional 250 rat and guinea pig cages and 500 mouse cages.

Second Task Order, Second Phase - H-Building Renovation; The center-piece of the second phase of the Contract was the complete renovation of H-Building which included **30,000 gsf of laboratory space** and **40,000 gsf of office and support space**. The existing 25-year-old wet laboratory space was devoted primarily to investigation of air born pathogens in the workplace environment and their effect on workers, studies of work place hazards and accidents, as well as the implementation and regulation of a National Respirator Standard. This 30,000 gsf area was gutted and replaced with updated, research specific wet laboratory space programmed to support current research efforts as well as future projections. The 40,000 gsf of office and support space was also reconfigured and completely refitted in conformance with GSA and CDC standards.

SMG programmed the renovated facility, designed the improvements and reconfiguration, and determined logistics of interim personnel relocations as well as final moves required to execute the work. Construction work was multi-phased to allow building operations to continue during the renovation work. Our studies allowed for the most efficient use of Contractor's schedule and manpower while requiring the minimum number of relocations and interferences with the ongoing research and certification programs.

Laboratories included human subject study modules, a biological archiving facility, air born particulate and toxic gas studies, and respirator testing and certification facilities. Featured equipment included containment hoods, environmental chambers, automated storage systems, robotics, and lasers. The renovations to H-Building were completed in 2002.

SMG and BKM have also completed facility upgrade and restoration design work at **The West Virginia Schools for the Deaf and the Blind** in Romney, WVA. Since 1995 numerous individual projects have provided new elevators in several buildings, brick masonry and stone coping restoration and repointing, and several roofing projects.

Anthony J. Machowski, AIA, Principal—Schamu Machowski Greco Architects, Inc.

Project Assignment: Principal— SMG Baltimore

Years Experience: 43 **With this Firm:** 23
With other Firms: 20

Education: BA | 1964 | Architecture | University of Michigan

Active Registration: 1975 | Architecture | Maryland

Other Experience and Qualifications relevant to the proposed project:

SMG Architects' Director of Laboratory Design, Tony Machowski has more than forty years of active practice. This includes fifteen years heading architectural construction administration operations for several firms, acquiring a thorough understanding of how buildings are constructed and renovated, and twenty years establishing and heading SMG Architect's laboratory design studio.

Tony serves as an involved "hands-on" project manager for each of SMG Architects' laboratory projects. Providing full architectural services from programming through planning, documentation and construction, he thoroughly understands how to serve the needs of the research and higher education communities. The majority of Tony's work with SMG has been renovation of existing laboratory facilities. He is skilled at managing renovations amid occupied adjacent spaces and he is sensitive to the need for uninterrupted research operations. Tony is an expert at planning phased construction with attention to special arrangements regarding access, noise, dust, vibration, deliveries, storage, infrastructure modification, etc.

Tony keeps current with prevailing trends in laboratory design as well as emerging technologies by attending educational workshops and conferences

- Harvard School of Public Health, Guidelines for Laboratory Design: Health and Safety Considerations 1998 & 2002
- The Turnkey Conference on Animal Facility Design & Operation 2004 & 2006

Tony Machowski served as Principal-in-Charge on the following:

Building 209 Bay E & Bay F Green Roof / US EPA, Edison, NJ:

2008, Study of a 15,000 SF roof bay and a 29,000 SF roof bay for the installation of a multi-component green roof system to allow for monitoring and study of run off characteristics and insulation properties of various compositions of green roof.

Engine Generator Electrical Power Sys / US EPA, Wheeling, WV:

2008, In-Depth study of emergency power requirements for research laboratory support and building safety systems. Included analysis of various locations along with cost implications.

Building 210 Boiler Replacement / US EPA, Edison, NJ:

2007, Two existing boilers to be removed with two new hot water gas fired boilers and controls installed. Existing structural limitations require floor mounted structural support for breeching and main distribution piping. Construction phased to allow two boilers on-line at all times.

Building 209 E&F Planning & Assess / US EPA, Edison, NJ:

2006, Assessment of a 30,000SF historic warehouse for use as a modern, technical research laboratory facility. Modifications to existing heavy-timer structural system would be required as would a complete MEP upgrade

National Institute on Drug Abuse First & Fourth Floor Renovation, Baltimore, MD:

This project consists primarily of a gut & fit-out of an existing Vivarium to provide a new 10,000 SF Vivarium which includes a new tunnel washing / dryer with a slurry waste dump station and automatic bedding dispenser as well as a new rack washer. The space was designed in accordance with NIH Vivarium Design Standards and AAALAC requirements

Victor Greco, AIA, Principal—Schamu Machowski Greco Architects, Inc.

Project Assignment: Principal—SMG West Virginia

Years Experience: 26 **With this Firm:** 21
With other Firms: 5

Education: BA | 1983 | Architecture | University of Kentucky

Active Registration: Architecture | West Virginia, Maryland, Pennsylvania, Ohio

Other Experience and Qualifications relevant to the proposed project:

Victor takes a holistic approach to create design solutions that address the complexities of higher education projects, as well as programming and master planning for future growth. He is detail oriented and pragmatic, working hands-on with each of his office's clients to ensure their needs are served efficiently and comprehensively.

Victor served as Board Member and Chairman of the Public Awareness Committee of the AIA/West Virginia. Other affiliations include: St. Michael's School Board President; Board Member and Chairman, Salvation Army; and Board Member, Easter Seals.

Victor Greco served as Principal-in-Charge on the following:

Jefferson Community College Library and Lecture Hall Renovations, Steubenville, OH:

2005, This project included renovation to time-worn finishes, lighting, seating and equipment within the library and lecture hall. Renovations brought the electrical system, which was near capacity and had become obsolete, into modern code compliance.

Jefferson Community College Daycare Center, Steubenville, OH:

2002, This preschool project included the selective demolition and repair of a former nursing laboratory and an existing exterior courtyard. The new preschool program included an outdoor play area, additional egress, toilet rooms, interior partitions and casework. The designs were all "child friendly", including special plumbing fixtures and custom casework.

Jefferson Community College Computer Lab Renovations, Steubenville, OH:

1996, SMG Architects designed renovations to this Electronics Laboratory, including relocation of an existing Hydraulics Lab. The Electronics Lab was expanded. Interior finishes were repaired and installed; the lab was outfitted with new fixtures, and the HVAC, plumbing and electrical systems were upgraded.

West Liberty State College, Dental Hygiene Lab, West Liberty, WV:

2000, SMG Architects designed renovations to an existing dental hygiene lab and clinic. The project included 20 new dental chairs, casework, x-ray rooms, classrooms, 20-station lab/facial modeling space, locker rooms and waiting room. The clinic is a work/study environment.

Parkersburg Orthopedic Associates, Parkersburg, WV:

2006, This project included a new 5,300 SF OB/GYN doctor's office. The program included 7 exam rooms, mammography room/imaging equipment, x-ray/darkroom, lab, consultation rooms, offices, records/reception/payment and waiting room.

West Liberty State College Media Arts Center, West Liberty, WV:

2006. SMG Architects designed a 10,600 SF addition including instructional and production space for the Media Arts Program. The addition includes music technology classrooms, audio and TV studios and control rooms. Renovations to the existing wing of the Hall of Fine Arts included classrooms, corridors and a new lobby / entry.

Wendy Scatterday, AIA—Schamu Machowski Greco Architects, Inc.

Project Assignment: Project Architect

Years Experience: 14 **With this Firm:** 11
With other Firms: 3

Education: BA | 1995 | Architecture | University of Tennessee

Active Registration: Architecture | West Virginia

Other Experience and Qualifications relevant to the proposed project:

Wendy has assisted and managed the development of programs, designs, construction documents and specifications for a variety of architectural project types. Wendy is a creative designer and problem solver who brings a unique perspective to each project. She is proficient in AutoCad and she organizes projects throughout multiple phases of design and production to ensure the highest level of detail and consistency.

Wendy Scatterday served as Project Architect on the following:

Jefferson Community College Library and Lecture Hall Renovations, Steubenville, OH:

2005, This project included renovation to time-worn finishes, lighting, seating and equipment within the library and lecture hall. Renovations brought the electrical system, which was near capacity and had become obsolete, into modern code compliance.

West Liberty State College Curtis Hall Dormitory, West Liberty, WV:

2004, This project involved the complete renovation of the four-story Curtis Hall Dormitory. Work included new interior finishes and furnishings, renovation of all bathroom fixtures, installation of new plumbing, renovation of common lounges and new HVAC throughout.

West Liberty State College Hughes Hall Façade Restoration, West Liberty, WV:

2005, The six story façade of Hughes Hall underwent complete restoration including cleaning, re-pointing, repair and waterproofing. Exposed steel lintels and windows and door openings were repaired, and the two-story limestone front porch columns and stone header were restored.

B&O Railroad Station, Oakland, MD:

1998, Following the design of a master plan and interior alterations, this historic 1884 Baltimore & Ohio Railroad Station became a new visitor center for the town of Oakland. The award-winning facility includes a smaller theater and museum. The meticulous restoration used slate mined from the same quarry that produced the original.

Easter Seals Rehabilitation Center, Wheeling, WV:

2007, SMG Architects completely renovated this children's rehabilitation facility. The project also included additions totaling 5,600 SF. The center includes private therapy rooms for speech therapy and audiology, physical therapy activity room, administrative and medical offices, ADA restroom, community room, REACH classroom, and a new waiting room. Construction was phased, allowing continuous operation of the center.

Beverly Heritage Center, Beverly, WV:

2008, SMG Architects is leading the restoration of four historic buildings in the town—Beverly Bank, the former Randolph County Courthouse, the Hill Building, and the Bushrod-Crawford Building. Phase one included complete exterior restoration of the bank and courthouse. Phase two includes interior restoration of the bank, courthouse and Bushrod-Crawford Buildings.

Elmhurst—The House of Friendship, Wheeling, WV:

The project consists of a 5 story, 12 unit 19,600 sq. ft. addition to an existing assisted living facility with multi-purpose space, administration offices and support areas.

Kenneth Dill, PE—KCI Technologies

Project Assignment: Senior Structural Engineer

Years Experience: 38 **With this Firm:** 2
With other Firms: 36

Education: AA | Civil Technology
Coursework | EIT Fundamentals

Active Registration: PE | West Virginia, Delaware, Maryland, Pennsylvania & Virginia

Other Experience and Qualifications relevant to the proposed project:

Kenneth is a Senior Structural Engineer and has more than 30 years experience in Maryland, Pennsylvania, West Virginia, Virginia and Washington, D C. His experience includes the design of steel, concrete and wood structures for commercial, residential, governmental, institutional, and industrial clients. His project experience has involved design of multiple story buildings, building condition assessments, project and construction management, cost estimates, preparation of contract documents and specifications, and client presentations.

Kenneth Dill served as Structural Engineer on the following:

West Virginia University Architectural and Engineering Open End, Morgantown, WV:

KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University. Responsibilities include the review of existing plans, structural assessment, bridge design, report preparation, and construction documents. Tasks include a structural assessment of the Summit Hall Parking Garage, a structural assessment of the Evansdale Library, and rehabilitation of the Percival Hall Pedestrian Bridge.

AMG / Conde Nast New Data center, Advance Magazine Group, Newark, DE:

Conde Nast Publications retained KCI to perform engineering, bidding support and construction administration services to renovate an existing 67,000 SF office building into a new data center including a 15,000 SF data center, 10,000 SF business recovery, 10,000 SF office, 4,000 SF receiving / storage, and a 28,000 SF undesignated / future use. This fast-track project will be completed in three phases.

VA Ambulatory Project, Wilmington, DE:

Provide structural support for medical equipment and support for roof top units at VA Medical Center in Wilmington, DE.

Veterans Hospital Parking Garage Expansion, Washington, D.C.:

KCI is providing structural engineering and building information modeling (BIM) for a 138,000 SF addition to an existing parking garage connected to the Washington Center Veterans' Hospital building. The use of BIM software is helping the team overcome challenges including maintaining the flow of traffic and determining how the additional parking decks will tie into the existing hospital building structure. The model is also being used to provide a three dimensional representation of the final design to the hospital staff for approval.

University of Maryland School of Medicine, Baltimore, MD:

Design of supports for steam piping allowing for expansion due to thermal loads. Check pipe chase support at each floor level to determine loading capacity.

Veterans Administration Hospital, Delaware

Single story building addition approximately 50 feet by 100 feet. Masonry wall construction with new foundations and metal roof joists. Check connection to existing building.

Andrew Endres, PE, LEED AP—Burdette Koehler Murphy & Associates, Inc.

Project Assignment: Chief Mechanical Engineer

Years Experience: 23 **With this Firm:** 23
 With other Firms: 0

Education: BS | 1985 | Mechanical Engineering | Pennsylvania State University

Active Registration: Mechanical Engineer | Maryland, Pennsylvania, West Virginia

Other Experience and Qualifications relevant to the proposed project:

Andrew has twenty-three years experience in engineering, all of which has been with BKM. He specializes in the renovation of existing facilities. He has successfully managed numerous projects for government agencies ranging from boiler replacements to full m/e/p systemic renovations. His design for the University of Maryland Baltimore—Howard Hall, which is used for research and laboratory space, received an ASHRAE technology award.

Andrew Endres served as Mechanical Engineer on the following:

Edison Environmental Center Buildings 209-210 US EPA, Edison, NJ:

2006. BKM provided m/e/p schematic design services to renovate 30,000SF of the existing early 1900's building to house the EPA's Emergency Response Team research laboratories. The mechanical and electrical design includes LEED design concepts, such as geo-thermal heat pumps, variable air volume controls, solar power generation, solar domestic water heating, and stormwater collection systems.

Baltimore County Courts Building MEP Conditions Assessment, Baltimore, MD:

2008. BKM provided the conditions assessment of the mechanical and electrical systems for the 327,000 SF Baltimore County Courts Building. The original building was constructed in 1973 with numerous renovations over the last thirty-five years. All existing mechanical and electrical equipment was documented to include original capacity, date of installation, current condition, expected remaining equipment life and recommendations for replacement or refurbishment. Cost estimates were prepared based on the summary and recommendations of the evaluation.

Baltimore County Courts Building OIT Data Center & 911 Call Center Renovation, Baltimore, MD:

2007. BKM provided the design for the replacement of two existing generators (600-kW and 250-kW located in the lower level of the Baltimore County Courts Building) and upgrades to the air conditioning and uninterrupted power supply (UPS) for the data center serving the Office of Information and Technology at the Baltimore County Courts complex.

Howard Hall Renovation, University of Maryland, Baltimore:

2007. This project included the phased renovation of 90,000 SF of laboratory/research space. The first phase of design included the complete upgrade of the m/e/p systems for the 4th, 5th and 6th floors. The latest phase of the project was highlighted by the renovation of the 6th floor to serve a new 12,500 SF Animal Care Facility. Upon completion of the Animal Care facility, the remaining 10,000 SF of the floor was fully renovated into a Biosafety Level 3 suite (BSL-3) complete with eight animal holding rooms and two procedure rooms.

Bressler Research Building, University of Maryland, Baltimore:

2007. The project consisted of the phased, occupied renovation of 40,000 SF of laboratory and office space and related infrastructure upgrades on the 9th and 10th floors. Each 20,000 SF floor was renovated into cancer research space complete with two environmental rooms, autoclave and sterilizer facilities, two dark rooms, five large open laboratory spaces, and specialized laboratories. Additional support spaces include a conference/library room, offices, storage, electron microscopy room, telecommunication/computer room, and two high-density major equipment areas to support the laboratory initiatives.

Mark Flickinger, PE, LEED AP—Burdette Koehler Murphy & Associates, Inc.

Project Assignment: Mechanical Engineer

Years Experience: 21 **With this Firm:** 14
With other Firms: 7

Education: Bachelor Architectural Engineering | 1988 | Architectural Engineering, Mechanical |
Pennsylvania State University

Active Registration: Mechanical Engineer | Maryland, Pennsylvania, Delaware

Other Experience and Qualifications relevant to the proposed project:

Mark has over twenty-one years of experience in the design of mechanical systems engineering for various building types. With a degree in architectural engineering, he has a solid understanding of the interaction between each of the building engineering disciplines. With a wide range of tasks and abilities, he is responsible for the design, layout, and sizing of HVAC and plumbing systems. As Principal, he is responsible for directing the design team, maintaining coordination, and establishing the standard of quality for the project.

Mark Flickinger Served as Mechanical Engineer on the following:

**Emergency Power System Reconfiguration Assessment—
US EPA, New England Regional Laboratory (NERL):**

2007. BKM provided m/e/p design services for this assessment / study to identify the modifications to the emergency power distribution system needed to provide manual load-add and load-shed capabilities to the operators of this 66,000 SF laboratory building. Due to budgetary constraints the existing 600-kW generator could not be upgraded. Generator load analysis was completed and critical load processes were identified to determine the best approach to maximizing generator usage.

Edison Environmental Center Buildings 209-210 US EPA, Edison, NJ:

2006. BKM provided m/e/p schematic design services to renovate 30,000SF of the existing early 1900's building to house the EPA's Emergency Response Team research laboratories. The mechanical and electrical design includes LEED design concepts, such as geo-thermal heat pumps, variable air volume controls, solar power generation, solar domestic water heating, and stormwater collection systems.

United Medical Center, Washington, DC:

2008. The United Medical Center, a 450-bed full service hospital, has served the Southeast area of Washington, DC for the last forty years. BKM has been involved in providing a comprehensive system evaluation and master plan for the facility since the fall of 2007. The master plan has resulted in significant infrastructure upgrades that include a new chiller, boiler, and emergency generator. In addition there have been design projects that include renovations of the existing operating rooms, radiology department (MRI, CT Scan, Angiography, and Gamma Camera Suites), skilled nursing, psychiatric, and long-term care areas.

AHU Replacement Buildings 80, 314, 134, VAMC, Perry Point, MD:

2006. BKM provided m/e/p design services for the major air handling unit replacement project in three critical buildings on-site at the VA facility in Perry Point, MD. The task was to remove air handling units and exhaust fan units from five different buildings whose original systems dated back to the 1960's and 1970's.

Richard Miller, PE, LEED AP—Burdette Koehler Murphy & Associates, Inc.

Project Assignment: Chief Electrical Engineer

Years Experience: 18 **With this Firm:** 3
 With other Firms: 15

Education: BS | 1985 | Electrical Engineering | Johns Hopkins University

Active Registration: Electrical Engineer | Maryland, Pennsylvania, Virginia, 22 states Total

Other Experience and Qualifications relevant to the proposed project:

Since his arrival to BKM as lead electrical engineer, Rick has managed staff and projects, and implemented engineering team design goals. His design background is comprised of educational, medical, research, infrastructure and industrial projects. Rick's experience with complex power systems comes from over sixteen years of work on various building projects, which included lighting, power, uninterruptible power, emergency and communication systems replacements.

Rick Miller served as Lead Electrical Engineer on the following:

CNIC ISC/NDW ROC Building 196 1st Floor Renovation, Washington Navy Yard, Washington DC:

2008. BKM provided m/e/p design services for an existing four-story 50,000 SF building that has withstood many renovations over the years. This latest effort consisted of approximately 7,500 SF for the conversion of an existing raised floor data center into a new state-of-the-art Regional Operations Center (ROC), complete with two mission rooms (each with a 12' long video wall), tiered seating, Surge Support, a common Watch Room, and a SCIF. Support space for the ROC included various administration / work areas, a centralized LAN Room, and 15-person video conferencing center.

**Emergency Power System Reconfiguration Assessment—
US EPA, New England Regional Laboratory (NERL):**

2007. BKM provided m/e/p design services for this assessment / study to identify the modifications to the emergency power distribution system needed to provide manual load-add and load-shed capabilities to the operators of this 66,000 SF laboratory building. Due to budgetary constraints the existing 600-kW generator could not be upgraded. Generator load analysis was completed and critical load processes were identified to determine the best approach to maximizing generator usage.

Boiler Replacement Building 209—US EPA, Edison, NJ:

2007. BKM provided mechanical and electrical schematic design services to renovate 30,000 SF of the existing early 1900's building to house the EPA's Emergency Response Team research laboratories. The mechanical and electrical design includes LEED design concepts, such as geo-thermal heat pumps, variable air volume controls, solar power generation, solar domestic water heating, and stormwater collection systems.

Baltimore County Courts Building MEP Conditions Assessment, Baltimore, MD:

2008. BKM provided the conditions assessment of the mechanical and electrical systems for the 327,000 SF Baltimore County Courts Building. The original building was constructed in 1973 with numerous renovations over the last thirty-five years. All existing mechanical and electrical equipment was documented to include original capacity, date of installation, current condition, expected remaining equipment life and recommendations for replacement or refurbishment. Cost estimates were prepared based on the summary and recommendations of the evaluation.

United Medical Center, Washington DC:

2008. The United Medical Center, a 450-bed full service hospital, has served the Southeast area of Washington, DC for the last forty years. BKM has been involved in providing a comprehensive system evaluation and master plan for the facility since the fall of 2007. The master plan has resulted in significant infrastructure upgrades that include a new chiller, boiler, and emergency generator.

Larry Fritts—Burdette Koehler Murphy & Associates, Inc.

Project Assignment: Electrical Engineer

Years Experience: 34 **With this Firm:** 9
 With other Firms: 25

Other Experience and Qualifications relevant to the proposed project:

With more than thirty years experience within the electrical design field, Mr. Fritts possesses a wide array of electrical engineering skills. His designs always marry form with function, while keeping the project budget in mind.

Larry Fritts served as Senior Electrical Engineer on the following:

Howard Hall Renovation, University of Maryland, Baltimore:

2007. This project included the phased renovation of 90,000 SF of laboratory/research space. The first phase of design included the complete upgrade of the m/e/p systems for the 4th, 5th and 6th floors. The latest phase of the project was highlighted by the renovation of the 6th floor to serve a new 12,500 SF Animal Care Facility. Upon completion of the Animal Care facility, the remaining 10,000 SF of the floor was fully renovated into a Biosafety Level 3 suite (BSL-3) complete with eight animal holding rooms and two procedure rooms.

Bressler Research Building, University of Maryland, Baltimore:

2007. The project consisted of the phased, occupied renovation of 40,000 SF of laboratory and office space and related infrastructure upgrades on the 9th and 10th floors. Each 20,000 SF floor was renovated into cancer research space complete with two environmental rooms, autoclave and sterilizer facilities, two dark rooms, five large open laboratory spaces, and specialized laboratories. Additional support spaces include a conference/library room, offices, storage, electron microscopy room, telecommunication/computer room, and two high-density major equipment areas to support the laboratory initiatives.

School of Communications, University of Baltimore:

2009. BKM's work for this project consisted of the complete interior renovation of a 70,000 SF Baltimore landmark, 1300 North Charles Street, recently acquired by the University of Baltimore. This five-story building will soon be home to the School of Communications, consisting of computer graphics laboratories, AV laboratories, audio booths, editing rooms, production studios, a 60-person tiered viewing room, as well as faculty and graduate offices. BKM provided m/e/p design services

Brewers Hill Natty Boh Tower, Baltimore, MD:

2005. The 160,000 GSF Natty Boh Tower is a mixed-use, adaptive re-use building. The newly renovated building includes a mini-storage tenant, daycare, offices and residences on the upper floors. The project was designed in compliance with Maryland Historical Tax Credits regulations which, among other things, restrict the number of new openings (window and louvers) that can be made in the façade and the amount of exterior wall that can have insulation applied to it. This project was designed to achieve LEED Silver with an additional 25 percent more energy savings in order to meet the standards of the new Maryland Green Building Tax Credit Program. The Natty Boh Tower is the first project to be designed under the HTC and the new Maryland Green Building Tax Credit Program, two rebate programs that are advantageous to the developer.

Paul Crampton, Vice President—KCI Technologies

Project Assignment: Civil Engineer

Years Experience: 27 **With this Firm:** 21
With other Firms: 6

Education: AA | Civil Engineering Technology
Certificate / Construction Inspection Technology
Certificate / Surveying Technology

Other Experience and Qualifications relevant to the proposed project:

Paul Crampton is a Vice President and Division Chief of KCI's Urban Planning & Development Division. He has more than 27 years experience in the completed development of sites involving educational facilities, commercial properties, office and administrative complexes, and roads and highways. His background on these projects includes preliminary concept and final construction document designs incorporating grading, drainage, utilities, erosion and sediment controls, road and streetscape design, lighting, entrances, stormwater management, sidewalk improvements, landscaping design, roadway design, permitting, regulatory agency and plan approval and representation at client/community meetings. He is responsible for the management and oversight of the Division, where his responsibilities include project and subconsultant management, contracting, budgets and scheduling, and personal management.

Paul Crampton served as Civil Engineer on the following:

National Institute of Health, Baltimore, MD:

KCI provided site planning, site/civil engineering, surveying, environmental planning, and construction administration services for the construction of a new 540,000 SF, 9-story research building within the existing Johns Hopkins Bayview Campus. KCI provided site civil engineering, stormwater management design, and geotechnical engineering services for this project. Site development drawings for the construction of a new 12.2 acre facility, and miscellaneous site improvements including parking lots, site utilities, and landscaping.

Johns Hopkins Bayview Campus, Baltimore City, MD:

KCI has been working with JHRE and other campus agencies on various projects. Hopkins and its affiliates have invested nearly \$450 million in new and expanded facilities since 1987. This expansion has been facilitated by a master plan calling for up to 5 million SF of mixed-use, medical research, office, patient care, and support operations. This is an ongoing project and KCI's work to date has totaled over \$2 million in fees.

Maiden Choice Medical Building, Baltimore, MD:

Provided site engineering, surveys, construction documents, subsurface exploration, and geotechnical evaluation for construction of a three-story, 21,000 +/- SF medical building with associated off street parking and 13 townhouses with associated parking.

Johns Hopkins Bayview Patient First, Baltimore City, MD:

KCI provided Construction Administration Phase Services for the construction of a new 7,000 SF walk-in Patient First. KCI prepared construction documents for plot, site, and grading specifications as well as utility and erosion and sediment control plans. KCI responded to contractor's RFIs. KCI also provided a punch list for site / civil related items and testing and inspection services during construction.

University of Maryland Biotechnology Institute, Baltimore, MD:

KCI provided site engineering services for a new addition to the University of Maryland. Work involved utility investigations to locate and determine the size and capacities of existing utilities surrounding the site and preparation of site, grading, and sediment and erosion control plans. Improvements included storm drainage, sanitary sewer, water meter, electrical conduit, sidewalk improvements, public and private street lighting, and a private communication ductbank in accordance with city standards.

Robert Milne, PE—KCI Technologies

Project Assignment: Division Chief, Morgantown, WV Office

Years Experience: 18 **With this Firm:** 6
With other Firms: 12

Education: BS | Civil Engineering | West Virginia University
MS | Civil Engineering | West Virginia University

Active Registration: PE | West Virginia & Pennsylvania

Other Experience and Qualifications relevant to the proposed project:

Robert is the Division Chief in KCI's Morgantown, West Virginia office and is responsible for the office's daily operation, supervision of staff, and management of large projects. Robert is also experienced in civil / site design, utilities and buildings, as well as roadway and storm sewer design; highways, bridges, traffic studies; construction administration and inspection.

Robert Milne served as Division Chief / Project Manager on the following:

West Virginia University Architectural and Engineering Open End, Morgantown, WV:

KCI was awarded an open end contract to provide multi-disciplined engineering services to the West Virginia University. Responsibilities include the review of existing plans, structural assessment, bridge design, report preparation, and construction documents. Tasks include a structural assessment of the Summit Hall Parking Garage, a structural assessment of the Evansdale Library, and rehabilitation of the Percival Hall Pedestrian Bridge.

New Northside Fire Station, Morgantown, WV:

KCI is a subconsultant to Bignell Watkins Hasser for the proposed North Side Fire Station for the City of Morgantown. KCI is responsible for overall site design, access roads, utility lines, sidewalks, landscaping, drainage, stormwater retention, grading plans, erosion and sedimentation control plans, and all the site / civil permitting.

WVU Downtown Student Housing Project, Morgantown, WV:

KCI is a subconsultant to Paradigm Architecture for the proposed Downtown Student Housing Project. KCI is responsible for overall site design, access roads, courtyard, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans and all the site / civil permitting.

The Dayton, Morgantown, WV:

KCI is a subconsultant to Paradigm Architecture for the proposed Dayton. The Dayton is a new 3-story modular building mixed-use student housing project with one level of parking and retail space below located at the corner of Ridgeway Avenue, Dayton Street, and Richwood Avenue in Morgantown, WV. KCI is responsible for overall site / civil design, water lines, sanitary sewer, general utility coordination, site / civil permitting, and erosion and sediment control.

The View II at the Park, Morgantown, WV:

KCI is a subconsultant to Paradigm Architecture for the proposed View II. The View II is the second phase of a three-phased development along the waterfront in Morgantown, WV. The View II is a 4-story structure that will be the new home to the Morgantown Area Chamber of Commerce once completed, along with several residential condominiums. KCI is responsible for overall site design, utility lines, sidewalks, drainage, storm water retention, grading plans, erosion and sedimentation control plans, and all the site / civil permitting.

Harpers Ferry National Park Historic Train Station, Harpers Ferry, WV:

KCI was subconsultant to a national design/build contractor to provide electrical, site / civil, and structural engineering support services for this Historical Renovation project. KCI was responsible for designing a 92 space parking lot, sidewalks and lighting.

PROJECT AND CONSTRUCTION MANAGEMENT

Quality Control

For laboratory renovation projects, the design team as a group begins by visiting, photographing and reviewing in-depth the existing facility, carefully noting the condition of the facility and systems and recording deviations from existing documentation. This produces an accurate annotated existing conditions document to serve as a baseline.

During the document production The Principal-in-Charge reviews the current package and coordinates all disciplines at each Milestone; Project Concept, Schematic Design, Design Development, 50% Construction Documents and 95% Construction Documents. Each review is followed by a Milestone Coordination Meeting of all disciplines. The Principal-in-Charge also writes the project specification which affords an additional opportunity to coordinate the documents. This process keeps the Principal-in-Charge in hands-on mode throughout the project.

At 95% completion of Construction Documents, the entire design team conducts a "Plans-in-Hand" review. The various discipline managers again walk the existing building but with the current documents in hand to compare the planned renovations with one last view of the realities of existing conditions. We find this an excellent tool for insuring that all existing oddities are included in the design documents and for assurance that the design team knows exactly who has included what in the documents. "I thought you had that covered" is poor excuse for an oversight. We know that the extra effort is necessary for coordination at the end of the Construction Document Phase – that effort is far less than the effort required to coordinate loose ends during the construction of the project and less expensive as well.

At SMG we utilize AutoCAD Architecture 2009. Company wide CAD Standard ensures the compatibility of drawings and ease of working on documents. SketchUp6 is also used in both offices as a way to convey a project in a 3D model. We have found this to be a successful tool in discussing construction options, casework details and overall layout of project with both the client and consultants. SMG has used project management websites for file sharing between consultants, clients and contractors.

Budget Compliance

We will coordinate our designs with budget constraints either by the use of professional cost consultants (we have worked successfully on multiple laboratory projects with Faithful+Gould) or by in-house comparison with past similar projects. SMG maintains a record of wet laboratory and vivarium square foot costs from all our projects. Many of the furnishings and finishes utilized in research grade wet laboratory design are similar from project to project and the same is true of vivaria materials and equipment. Using this base historic information we can accurately predict big picture budgets. We have extensive experience in the successful design and construction of laboratory renovation projects always with focus on a limited time schedule and a finite budget. Through extensive use of phased construction and multi-shift workforce where appropriate we are able to maximize schedule, while Add Alternates in the Construction Bid Package allow us to tailor required features with available budget.

Conformance to Schedule

SMG's in-house project scheduling is managed and updated during weekly staff meetings. We review progress of each active project and update both short term and long range manpower requirements. This low tech exercise serves us well and helps key staff appreciate the general manpower allotment needs and the expectations for their individual performances. We do not over-commit and we do not schedule depending on overtime hours. When schedule demands additional effort we require focused overtime and we share manpower resources from both the Baltimore and Wheeling offices. We share an electronically linked file server and personnel from either office can execute work on a given project. Our current workload is lighter than normal.

Project Methodology

SMG Architects and Burdette, Koehler & Murphy have designed more than thirty wet laboratory and vivaria projects together over the past seventeen years, developing a precise yet comfortable working relationship with one another. Both firms have served as project lead and both firms are thoroughly aware of laboratory project complexity, the myriad of individual components, and essential continuous coordination of facility, services, and equipment.

Project initiation includes evaluation and assignment of responsibilities and personnel. Bi-weekly team meetings track project development and scope. Milestone review meetings focus on coordination. Throughout the design phases the team maintains a close liaison with the project Building Committee consisting of representatives from the Owners facilities department, safety, and user groups.

Construction Phase Management

Principal-in-Charge Tony Machowski assumes full day-to-day responsibility for projects during construction and takes the lead in jobsite observations, response to RFI's, checking shop drawings and reviewing and issuing change orders. With many years of focus on Construction Phase management he is able to anticipate necessary changes during the RFI and shop drawing stages before job issues delay progress and before work is installed that may later require modification, both of which significantly reduce the number and size of claims. Tony has years of experience interpreting construction specifications (he authors SMG project specifications) and assigning responsibility for all aspects of the work. We feel our commitment to provide Principal-level representation during construction provides a safety net in the control of project schedule and budget.

West Virginia Logistics

SMG Architects and Burdette, Koehler & Murphy were awarded two consecutive open-end contracts for The National Institute for Occupational Safety and Health totaling seven years and over \$15 million of construction projects in Morgantown, West Virginia. We executed these contracts from our Baltimore offices combining conventional site visits with electronic data transfer. We pre-planned each site visit for the most efficient use of our time with focused interviews, inspections, and meetings. Modern information technology allows easy and accurate communication that, at times, precludes the need for face-to-face meetings. However, when the work intensity required our frequent presence at the project site, we leased a local office/apartment facility so that design team members could be on-site as required. We anticipate similar logistics for your projects. In addition, SMG will actively involve personnel from the Wheeling office to improve our job-site availability.

SUPPLEMENTAL INFORMATION

SMG Architects has designed research specific biotechnical laboratory projects and vivaria renovations for clients including Johns Hopkins School of Medicine, Johns Hopkins Real Estate, Centers for Disease Control, National Institute for Occupational Safety and Health, National Institute on Drug Abuse, National Institute on Aging, United States Environmental Protection Agency, as well as for private sector and educational institutions since 1986 completing over sixty projects. This work has allowed us to create and evolve a basic design approach and procedures to ensure complete accommodation of the process and coordination of all components, services and equipment required for biomedical research. We have taken the time to understand the needs of the individual researcher in a laboratory environment both from the aspects of comfort and safety. We value interaction with dedicated researchers and educators to provide quality environment coupled with safe, functional layouts. SMG has developed laboratory cabinetwork details that allow maximum infiltration of natural light in those situations that afford access to natural light.

Our involvement typically begins early with Infrastructure Review and Project Programming working closely with owner's representatives and user groups to arrive at a Project Concept Statement / Drawing and confirmation of project schedule and budget. Our services continue typically through completion of construction and occupancy. We most often work in occupied buildings where adjacent spaces may

house sensitive experimentation. We frequently design for phased construction, which, in an occupied facility, allows for minimal interruption of operations during project realization. In association with phased construction we plan the relocation logistics to minimize moves, inconvenience, shut-downs and general interruption

Our first-hand experience with specialized equipment is extensive, ranging from cage, rack, and tunnel washers; bedding dispensers and disposals including slurry-type disposers; environmental rooms from dry to warm to cold to freezers; imaging specialties, electron microscopes with anti-vibrational beds, confocal units; through robotic applications for remote camera controls and human subject tracking.

SMG Architects has a thorough and continuing working knowledge of;

- NIH Design Policy and Guidelines for Laboratory Design
- NIH Design Policy and Guidelines for Vivarium Design
- Guide for the Care & Use of Laboratory Animals / ILAR & AAALAC recommended.
- Biosafety in Microbiological & Biomedical Laboratories / CDC & NIH
- Guidelines for Laboratory Design, Health & Safety Considerations
- NFPA 45, Standard on Fire Protection for Laboratories Using Chemicals

Mr. Machowski has successfully completed "Guidelines for Laboratory Design: Health and Safety Considerations" continuing education at the Harvard School of Public Health both in 1997 and 2001. He also attended the Turnkey Conference, Basic Guidelines for the Design and Development of Laboratory Animal Facilities in 2004

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LETTER OF TRANSMITTAL

DATE: February 11, 2009 FROM: Tony Machowski
 PROJECT: West Virginia Dept of Health & Human Resources – Laboratory Services Facility Improvement Projects – LBS90030
 TO: Roberta Wagner, Senior Buyer

- We transmit: Herewith Under Separate Cover via
- For Your: Approval Use Review and Comment
 Record Distribution
- The following: Prints Shop Drawings Proposals
 Specifications Samples

Copies	Date	No.	Description	Action
1	2/11/09		Letter of Interest, Purchasing Affidavit, RFQ pages 1-3	
7	2/11/09		1 Original, 6 Convenience Copies – Expression of Interest	

- Action A. Approved C. Revise and Resubmit E.
 B. Approved as noted D. Rejected F.

Remarks:

Copies to:

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(with enclosures)

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Submitted by:

Tony Machowski

Signed:

A. Machowski