

# Mahbubur Meenar

## CURRENT POSITIONS

### **Assistant Director**, GIS Operations and Research

Center for Sustainable Communities, Temple University, 2008 – current

- Helped clients (local governments, developers, non-profits, and educators) translate and implement real-world needs into GIS technology-driven solutions
- Defined project scope, requirements, milestones, review points, and deliverables
- Lead GIS team and allocated appropriate resources to complete specific project tasks on time
- Managed project performance, subcontractors, and client relationships
- Assisted Center's Director in developing new businesses, project designs, work plans, budgets, and schedules
- Developed, oversaw, and maintained the CSC GIS Studio and prepared multi-year GIS implementation strategies and progress reports
- Supervised and mentored Graduate Research Assistants
- Designed and maintained CSC web site and project specific web sites
- Participated in community meetings acting as the GIS expert by providing information about the utilization possibilities of GIS in local and regional government market

### **Adjunct Assistant Professor**

Department of Community and Regional Planning, Temple University, 2002 – current

- Graduate Courses: (i) Spatial Analysis Techniques, (ii) Advanced Techniques in GIS, (iii) Urban Form and Design
- Undergraduate Courses: (i) Introduction to GIS, (ii) Urban Form and Design
- Workshops: (i) GIS for Local Government Officials (2-day), (ii) 3-D Visualization Using ArcGIS & SketchUp (1-day)
- Guest Lectures: Other Temple University courses, Public school events

## PREVIOUS POSITIONS

- Senior GIS Design Specialist, Center for Sustainable Communities, Temple University, 2004 – 2008
- GIS/Program Coordinator, Center for Sustainable Communities, Temple University, 2002 – 2004
- Planning Intern, Department of Community and Economic Development, Lee County, FL, 2001
- Research Assistant, Regional Institute, SUNY at Buffalo, 2001 – 2002
- Teaching Assistant, Department of Urban and Regional Planning, SUNY at Buffalo, 2001 – 2002
- Research Assistant, Center for Urban Studies, SUNY at Buffalo, 2000 – 2001
- IT Consultant, School of Dental Medicine, SUNY at Buffalo, 2000
- Architect, (i) DIO Architects, (ii) Riddhi Architects, (iii) Consulting Options Pvt. Ltd., Bangladesh, 1997 – 1999
- Lecturer, Department of Architecture, Ahsanullah University of Science & Technology, Bangladesh, 1998 – 1999
- Faculty, Interior Design Certification Program (1-year), Exterior Interior (Pvt.) Ltd., Bangladesh, 1997 – 1999

## EDUCATION

**Master of Urban Planning**, 2002, SUNY at Buffalo

**Bachelor of Architecture**, 1997, Bangladesh University of Engineering and Technology

## PRACTICE AREAS

GIS, Three-Dimensional Visualization, & Digital Media Applications

Planning & Design (Sustainable Development, Disaster Management, Growth Management, & Urban Redevelopment)

Interactive Public Information and Community Participation through World Wide Web

## PROJECTS

- 2007 – 2008: **Principal Investigator**, *3D GIS Visualization: Fort Washington Office Park Revitalization Project*, funded by the PA Department of Community and Economic Development (DCED) – \$215,000
- 2006 – 2008: **Principal Investigator**, *Philadelphia Community Food Access: The Need and Access to Hunger Relief Services in Low-Income Neighborhoods*, funded by Philabundance, PA – \$82,000
- 2007 – 2008: **Principal Investigator**, *Upper Dublin Environmental Resources Inventory*, funded by Upper Dublin Township, PA – \$16,000
- 2006 – 2008: **GIS Manager**, *Fort Washington Area Flooding and Transportation Improvement Study*, funded by a Federal Transportation Earmark through Upper Dublin Township, PA – \$420,000
- 2005 – 2007: **Web Designer**, *Temple - Villanova Sustainable Stormwater Initiative*, funded by the William Penn Foundation (\$440,000) and PA Department of Environmental Protection (DEP) (\$212,220)

- 2005 – 2006: **GIS Coordinator**, *Sandy Run and Ambler Area Watersheds Project*, funded by the Federal Emergency Management Agency (FEMA) – \$ 200,000
- 2003 – 2006: **Co-Chair, GIS Mapping and Data Analysis Committee**, *Applying the EPA's Regional Vulnerability Assessment (ReVA) Approach to the Pennypack Creek Watershed*, funded by the Department of Environmental Protection (DEP) and Environmental Protection Agency (EPA) – \$300,000
- 2002 – 2006: **GIS Coordinator**, *Pennypack Creek Watershed Study*, funded by the William Penn Foundation (\$330,000), Federal Emergency Management Agency (FEMA) (\$192,500), and local municipalities (\$100,000)
- 2003 – 2004: **GIS Coordinator**, *Milford Township Growth Management Plan*, funded by the Department of Housing and Urban Development (HUD) received by the Township – \$80,000
- 2001 – 2002: Research Assistant, *State of the Region*, conducted by the Regional Institute, SUNY at Buffalo
- 2000 – 2001: Research Assistant in (i) *Buffalo Community-Based Healthy Homes Initiative*, (ii) *Bethel Village Head Start Project*, and (iii) *The Health Status of the Near East Side Black Community: A Study of Wellness and Neighborhood Conditions*, conducted by the Center for Urban Studies, SUNY at Buffalo

### **HONORS, AWARDS, AND GRANTS**

2007: Research Bridge Grant awarded by Temple University, \$38,000  
 2007: Research grant from Upper Dublin Township, \$16,000 (Grant Writer)  
 2006 – 2008: Research grant (three phases) from Philabundance, \$82,000 (Grant Writer)  
 2006: Research grant from Upper Dublin Township, \$420,000 (Grant Proposal Editor)  
 2002 – Present: Contributor in other grant proposals of the CSC (approximately \$732,200)  
 2001: Research grant from the Department of Housing and Urban Development (HUD), \$700,000, as member of Graduate Planning Studio, SUNY at Buffalo  
 1999 – 2002: (i) Academic Excellence Award, Service Award, Dean's Award, and Tuition Scholarship, SUNY at Buffalo; (ii) ESRI Student Assistantship Award – 2001 International User Conference  
 1983 – 1997: International Travel Grant and various governmental merit scholarships, Bangladesh

### **SELECTED PUBLICATIONS**

- (Referred) *Suitable Housing Placement: a GIS-Based Approach*. 2008. Environmental Management (with Sorrentino and Flamm)
- (Book Chapter) *GIS-Based Simulation and Visualization of Urban Landuse Change*. 2008. Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems, eds. Liu, L. and Eck, J. Pennsylvania: Idea Publishing
- (Book Chapter) *Dealing with 3D Surface Models: Raster and TIN*. Forthcoming 2008. The Encyclopedia of Geoinformatics, ed. Karimi, H. Pennsylvania: Idea Group, Inc. (with Sorrentino)
- (Book Chapter) *Coupling GPS and GIS*. Forthcoming 2008. The Encyclopedia of Geoinformatics, ed. Karimi, H. Pennsylvania: Idea Group, Inc. (with Sorrentino and Yesmin)
- (Referred) *Using Geoinformation Technology to Develop a Vulnerability Assessment Model in Natural Disaster-Prone Areas*. 2006. Daffodil International University Journal of Science and Technology, 1(1):25-33
- *Applying the EPA's Regional Vulnerability Assessment Approach to the Pennypack Creek Watershed*. 2007. Report submitted to the Environmental Protection Agency (with Sorrentino and Featherstone)
- *Life on the Floodplain: Remapping Watersheds, Neighborhoods, and Lives*. 2006. Planning, 72(7):30-33 (with Duffy and Bari)
- *Managing Storm Water*. 2006. ArcUser, 9(4):30-31
- *Three-Dimensional Models Encourage Public Participation*. 2006. ArcUser, 9(2):34-37 (with Ambrus)
- *Developing a Watershed Inventory for Vulnerability Assessment Using ArcGIS*. 2006. ArcUser, 9(1):20-23 (with Bari and Paulsen)
- (Book Chapter) *Poverty in the United States*. 2006. The Encyclopedia of World Poverty, ed. Odekon, M. California: Sage Publications, pp. 1106-1116 (with Sorrentino)
- *Turning Threats into Assets: Floodplain Management Using GIS Technology*. 2006. International Association of Emergency Managers Bulletin, 23(7):14-6 (with Spinella)
- (Editor) *Pennypack Creek Watershed Study*. 2006. Report submitted to the Federal Emergency Management Agency and William Penn Foundation

### **CONFERENCE PAPERS, PRESENTATIONS, AND POSTERS**

- 2008: *3D GIS Visualization of Sustainable Urban Area Redevelopment*. Poster presentation at Pennsylvania Green Growth Partnership Forum, Hershey, PA. (with Walters)
- 2007: *Pennypack Creek Watershed Study: An Interdisciplinary Research*. ESRI Mid-Atlantic User Group Conference, Philadelphia, PA.
- 2007: *A New Criterion for Designing Infiltration Basins*. PA Stormwater Management Symposium, Philadelphia, PA. (with Boufadel, Li, Bobo, Featherstone, and Nalbandian)

- 2007: *Mapping Community Food Access*. URISA Annual Conference, Washington, D.C.
- 2007: *Rethinking the Built Environment in Natural Disaster-Prone Areas*, URISA Annual Conference, Washington, D.C. (with Ambrus)
- 2007: *Working in Floodplains? A Sustainable Office Park Redesign with GIS*. ESRI International User Conference, San Diego, CA.
- 2007: *Environment, GIS, and Sustainability*. Poster presentation at ESRI International User Conference, San Diego, CA.
- 2007: *Sustainable Design with GIS*. Poster presentation at Pennsylvania Green Growth Partnership Forum, Hershey, PA.
- 2006: *Digital Defense Against Natural Disaster: Can You See What You Can Get?* Annual Conference of Pennsylvania Planning Association, Harrisburg, PA.
- 2006: *GIS for Green Streets and Better Stormwater Management*. Fourteenth Annual Pennsylvania GIS Conference, Camp Hill, PA.
- 2006: *Natural and Built Environment GIS Inventory*. National Conference of American Planning Association, San Antonio, TX.
- 2005: *Visioning Communities: the 3D GIS Approach*. Geographic Information Systems for Local Government Conference, State College, PA.
- 2004: *Growth Management Plan for Milford Township, PA: Suitability Analysis and Buildout Scenarios*. ESRI International User Conference, San Diego, CA. (with Bari & Sherry)
- 2004: *GIS Technology in a Citizen-Based Process to Develop a Growth Management Plan*. Public Participation GIS Conference, Madison, WS. (with Bari)
- 2002: *Evaluation of Land Development Scenarios Through 3-D Analyses*. Intergovernmental Technology Conference (ITC), Hershey, PA. (with Featherstone, Granger & Bari)
- 2001: *Development of a GIS-Based Model for Designing a Citywide Recreational Bikeway Network for the City of Buffalo, NY*. ESRI International User Conference, San Diego, CA.

## **TECHNICAL SKILLS**

- GIS, GPS, and CAD: ArcGIS 9.2 (ArcInfo, ArcCatalog, ArcToolbox), Arc View 3.2, Spatial Analyst, Network Analyst, 3D Analyst, Image Analyst, SketchUp, CommunityViz (Scenario Constructor, Side Builder 3D), Index, AutoCAD Map, and familiar with ArcIMS, ArcGIS Server, HAZUS, TransCAD, MapInfo, Maptitude, and Trimble Pathfinder
- Hydraulic/Hydrologic Modeling: Familiar with Hec-RAS and HecGeoRAS
- Word Processing, Relational Database, & Spreadsheet: MS Word, Excel, Access, and familiar with Oracle and SPSS
- Internet & Web Design: MS FrontPage, Share Point Web, Macromedia Flash, Dreamweaver, and WS-FTP
- Graphics Presentation & Desktop Publishing: MS Power Point, Publisher, Adobe Photo shop, Illustrator, InDesign, Live Image, and Paint-Shop-Pro
- Programming Language: HTML, UML (Life Cycle Design), and familiar with MS Visual Basic 6, JAVA, Java Script, SQL, and LPA Win Prolog