

FAZLAY S. FARUQUE, PHD, PG
UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

Professional Preparation

- University of Rajshahi, Bangladesh, Geology (emphasis on Mining), **B.S.**, 1983
- University of Rajshahi, Bangladesh, Geology (emphasis on Engineering Geology), **M.S.** 1986
- University of Mississippi, Geological Engineering (emphasis on GIS), **M.S.**, 1991
- University of Mississippi, Geological Engineering (emphasis on GIS and planning), **Ph.D.**, 1998

Appointments

University of Mississippi Medical Center, December 2000 – present

Director of GIS, Office of Research

Assistant Professor, *School of Nursing*

Assistant Professor, *Dept of Diagnostic Sciences*

Assistant Professor, *Dept of Health Information Management*

Adjunct Faculty

- Department of Geology & Geological Engineering, University of Mississippi
- Department of Urban & Regional Planning, Jackson State University
- Jackson Engineering Graduate Program, University of Mississippi

GIS Manager, December 1999 – December 2000

GIS Technical Manager, August 1998 - December 1999, **GIS Analyst**, June 1996 - August 1998

Waggoner Engineering Inc. (WEI): Jackson, Mississippi

Research Assistant, January 1994 - June 1996

Mississippi Mineral Resources Institute (MMRI): University, Mississippi

Research Assistant, May 1994 - August 1994

Department of Civil Engineering: University, Mississippi

Research Assistant, January 1993 - December 1993

Mississippi Mineral Resources Institute: University, Mississippi

Research Assistant, August 1990 - May 1991

Department of Geology & Geological Engineering: University, Mississippi

Lab Instructor

Department of Geology & Geological Engineering: University, Mississippi

(Fall 1990, Spring 1991, Summer 1992, Summer 1994, Summer 1995)

Synergistic Activities

1. Developed web-based courses for Northwest Mississippi Community College
 - Geospatial Information Technology in Epidemiology and Health Care
2. Authorized instructor of ArcView GIS (ESRI) and Parcel Editor GIS (NovaLIS)
3. Current services
 - Executive Member, International Panel, Bangladesh Environmental Network, (BEN)
 - Member, Interdisciplinary Academic Course Development Committee on Preparedness against Weapons of Mass Destruction, University of Mississippi Medical Center
 - Member, Governor's Obesity Data Recourse Subcommittee, State of Mississippi
 - Member, Mississippi Emergency Management Agency (MEMA) Sheltering Task Force
4. Guest Instructor (GIS), Center for Community Health, USM, Teach one class every semester
5. Offered 11 local, 10 state, 3 national and 3 international presentations on GIS since January 2001

Publications

Mitra, A., Faruque, F. and Avis, A. (2004). Breast Cancer and Environmental Risks: Review of Literature, *Journal of Environmental Health*, March 2004 (in press)

Faruque, F., Hewlett, P., Wyatt, S., Lofton, S., Frate, D., Wilson, K. and Gunn J. (2003). Geocoding- A Location-Based Survey Method for Community Assessment to Optimize Community Outreach and Education, *Journal of Nursing Education* (submitted)

Faruque, F., Lofton, S., Doddado, T. and Mangum, C. (2003). Utilizing Geographic Information Systems (GIS) in Community Assessment and Nursing Research, *Journal of Community Health Nursing*, Vol. 20, No.3.

Faruque, F. (2003). Image creation from LIDAR intensity data. *ArcUser Magazine*, January-March 2003, Vol. 6, No.1

Faruque, F. (2002). The Use of Nationwide Geographic Information System to Meet the Challenge of Sustainable Development in the Least Developed Countries. In W. Filho (Ed.), *International Experiences on Sustainability*. Bern, Frankfurt, New York, Vienna: Peter Lang Scientific Publishers.

Faruque, F. (2000). Nationwide Geographic Information System- A Cost Effective and Efficient Approach to Meet the Challenge of Sustainable Development in Bangladesh”, Conference Proceedings on Bangladesh Environment 2000, January 15-16, 2000, Dhaka, Bangladesh.

Faruque, F., Swann, C.T. and Easson, G. (1996). GIS in Environmental and Engineering Applications for Small Municipalities. Conference proceedings on Building the Community Through GIS, Memphis, TN, April 22-23, 1996.

Lozano, N and Faruque, F. (1996). Application of GIS in the Evaluation of Clay Resources in Mississippi. Conference proceedings on Building the Community Through GIS, Memphis, TN, April 22-23, 1996.

Faruque, F. and Ingram, S. (2003). Large-scale Digital Geologic Mapping- Application in Environmental Health, Planning and Engineering (manuscript).

Faruque, F. and Drake, LM (2003). Spatial Attributes of CAM Practices: A GIS-based Analysis, (manuscript)

Collaborators and other Affiliations

1. Fredrick B. Carlton, MD, School of Medicine, UMMC- GIS use in Analyzing Toxic Exposure Surveillance System Data of PCC, UMMC
2. Stanley Chapman, M.D., Professor, School of Medicine, UMMC- Spatial Analysis for Antibiotic
3. Margaret Drake, Ph.D., Associate Professor, School of Health Related Profession, UMMC-Analysis of Spatial Distribution of Complementary and Alternative Medicine Practitioners in Mississippi
4. Peggy Hewlett, BSN, Ph.D., Associate Dean for research, School of Nursing, UMMC- GIS Applications in Community Health Assessment
5. Dr. Arthur Hume, Ph.D., Professor, School of Medicine, UMMC- Spatial Analysis of Elevated Blood Lead Levels in Children in Mississippi
6. Amal Mitra, M.D., Ph.D., Associate Professor, Center for Community Health, University of Southern Mississippi- Breast Cancer Mapping in Mississippi to Study Environmental Risk Factors
7. A. K. Siddique, MBBS, MPH, ICDDR,B- Centre for Health and Population Research (www.icddr.org)- GIS analyses in cholera, malaria and tuberculoses studies