

## Dr. W. Uddin's Academic Services (updated January 2009)

### Service to Institutions for academics and research collaboration:

1. Collaboration with NED University of Engineering and Technology, Karachi, Pakistan; led to USAID grant for transportation management improvement in Karachi, 2007-2010.
2. Collaboration with Mackenzie University, São Paulo, Brazil; Provost signed cooperative agreement in Oxford on 18 Jun 2004 with Rector of Mackenzie University.
3. Collaboration with the Brazilian Asphalt Pavement Association, Rio de Janeiro, Brazil; worked with the International Program Office and Engineering School Dean for research and technology transfer agreement, 2003.
4. External evaluation letters for promotion of two civil engineering faculty to associate professor (University of Wisconsin and Asian Institute of Technology, Bangkok, Thailand), 2004-2005 *Invited Referee*
5. External reviewer/examiner of PhD dissertations and theses (*by invitation*)
  1. Lee, Jae Ho. "An ANN-Based Back Prediction Model for Reliable Bridge Management System Implementation." PhD Thesis (Supervisor, Professor Yew-Chaye Loo), Department of Civil Engineering, Griffith University, Gold Coast Campus, Australia, August 2007
  2. Singh, Shalendra Pratap. "Reinforced Flyash in Rural Road Sub-Bases." *PhD Thesis* (Supervisor Dr. Parveen kumar), Department of Civil Engineering, Indian Institute of Technology, Roorkee, India, March 2006.
  3. Agarwal, Pradeep Kumar. "Road Condition Evaluation, Prioritization, and Optimal Resource Allocation for Highway Maintenance at Network Level." *PhD Thesis* (Supervisors Dr. Partha Chakroborty and Dr. Animesh Das), Department of Civil Engineering, Indian Institute of Technology, Kanpur, India, August 2005.
  4. Lauri Liimatta, Doctoral student from Oulu, Finland. Reviewed the proposal of doctoral thesis, sent letter of recommendations and suggestions, and evaluated final thesis, 2003-2004.
6. External advisor to visiting scholars from U.S. and abroad
  - 2 Visiting scholar professors from Istanbul Technical University, Turkey, 2004-2005
  - 1 Visiting scholar student from University of Pisa, Italy, 2005
  - 3 Visiting scholar doctoral students from Ulster University, Northern Ireland, 2003
  - 2 Undergraduate exchange student interns from former Soviet Union Republics, 2002 (Rashad Aliyev from Azerbaijan and Tigran Grigorian from Armenia)
  - 2 Summer Research Institute for Undergraduates (SRIU) undergraduate student scholars from Mississippi, the University of Mississippi, Summer 2002, Summer 2003 (Mentor).

### Service to the University of Mississippi:

7. Founded the Center for Advanced Infrastructure Technology (CAIT) at the University of Mississippi and continuing as the Director since December 1999. CAIT was created to conduct advanced computer modeling & simulation and apply modern remote sensing & spatial technologies for enhancing infrastructure asset management and sustainable development with emphasis on surface transportation, aviation, energy and community. More info the Center's web page. <http://www.olemiss.edu/projects/cait/Index.html>  
  
The Center teamed up with Mississippi State University for a major 4-year grant from the US DOT to lead national effort on remote sensing applications for environmental assessment of transportation projects with CAIT's lead on air quality project.

## Dr. W. Uddin's Academic Services..... continued

### Service to the University of Mississippi: (continued)

8. Helped Bikila Wodajo, doctoral candidate, in the application and recommendation process who won the prestigious Eisenhower Graduate Fellowship, 2005-2006; advised Bikila for DELTA proposal and won the post-Katrina remote sensing data grant from Canadian Space Agency, 2006.
9. Graduate program coordinator, Department of Civil Engineering, since Fall 2004.
10. Faculty Advisor, Student Chapter of Institute of Transportation Engineers, since 2001
11. Established Superpave Asphalt Binder Laboratory, Asphalt Dynamic Testing Laboratory, and Asphalt Mixture Laboratory using the Mississippi DOT grant of \$125,000 and \$110,000 FHWA grant, 2000-2002.
12. ABET related laboratory equipment and computer inventory, 1993-1999, for ABET visits in 1993 and 1999 including operation management and supervision of CE instrument technician; lab preparation for asphalt and mechanical testing labs for 2004 & 2010 ABET visits.

### Service to the University of Mississippi committees:

13. Member, University Standing Committees: Tenure & Promotion Review (2009), Sabbatical Application Review (2008); International Programs (2007-2009)
14. Member, Vice Chancellor-Research & Sponsored Programs' review committee for the Ralph Powe Junior Faculty Research Enhancement Award from Oak Ridge Associated Universities, 2009
15. Member, Provost Research Task Group (chair, Marc Slattery) and Lead for subtask group on Facilities and Infrastructures, September 2004 – March 2005
16. Member, Instructional Technology Standing Committee, Fall 2001; persuaded committee to approve on-line overhead computer projector for CE class room in Carrier 211, 2003
17. Member (Alternate), Research Board Standing Committee, Fall 2001
18. Member of Chancellor Robert Khayat's engineering school delegation who visited Diversified Technologies/Ergon, Inc. in Jackson for future collaboration and fund raising of scholarship grant donations, March 22, 2001
19. Member, Core Course Review Committees, CSCI 251 (1993-2004); ENGR 360/361/362; Engineering Materials, 1993-present
20. Department coordinator, Y2K – Year 2000 Computing compliance tasks
21. Coordinator of department computer graphics laboratory and networking, 1996-2000
22. Assistance to Chair in establishing the first expanded network computer laboratory in 1993; updating laboratory plans and 1998 ABET visit; assistance to chair in 2004 ABET visit
23. Supervisor of undergraduate teaching laboratories and computer equipment; training of department technician; department equipment inventory control and security, 1994-2000

## **Dr. W. Uddin's Academic Services..... continued**

### Service to external constituencies of the University, community, and society:

24. Hospital and wellness center project in Togo, West Africa (technical advice and CAIT support to graduate student Marni Kendricks, North Oxford Baptist Church, and Grace Church, Togo), 2007-2008
25. Mississippi Asphalt Research Consortium, Advisory Committee member (University of Mississippi representative), 2008-present
26. Appointed by Oxford Central Elementary School Principal to serve as parent's representative on Oxford District committee for New Elementary School, Feb 9, 2005
27. University representative at annual Mississippi Transportation Conference, Jackson, 1998, 99; the Mississippi Transportation Institute Board meeting 2004 where \$1000 grant was secured to help in hosting the ASCE Deep South Regional Conference at Ole Miss, 25-27 March 2004
28. Provided presentation graphics and graduate student support to Jason Hale of MCSR for use in high performance computing conference and high school fairs, Fall 2002, 2003, 2004
29. Mentor to the Assistant City Engineer, Oxford for his P.E. registration, Dec 2001
30. Advised the City of Oxford Mayor on workplan for the 1.5 million dollars congressional ITS grant for Oxford, Mississippi, 1999-2001
31. Advised the City of Tupelo, Lee County officials, Community Development Foundation, and Council of Governments on proposal preparation for NASA grant, March 2001
32. Advised the Mayor and Town Council of Myrtle, Union County, on town expansion plan, 1995
33. Advised Ms. Mary Sloan of the Patron Ladies Club on the foundation and structural condition of the Cedar Oak historic building in Oxford, Mississippi, 1993
34. MARIS (Mississippi Automated Resource Information System), Member of Task Force, 1994
35. Captain, Oxford Civil Air Patrol (CAP) Squadron and a senior member, 1998-2003

### Industry collaboration for lectures and students' field visits:

36. Students' visit to Memphis International Airport and APAC asphalt plant sites (courtesy of Keith Ferrell, Ole Miss CE alumnus, and Joe Polk, Construction Engineer at Memphis-Shelby County Airport Authority); visit on November 13, 2006 by CE481 and CE590 students; previous visit in 2003
37. Annual Concrete Laboratory Training Course at B&B Concrete plant in Tupelo, 2002-present.
38. Invited ITE transportation lecture every semester by the Mississippi DOT Engineers and consultants, since 2001