

## Dr. Uddin's Invited Lectures and Keynote Speeches (updated March 2011)

Dr. Uddin has presented 67 invited lectures and keynote presentations. Only selected invited lectures and keynote presentations are listed here.

1. "Flooding, Ecological Diversity, and Wildlife Habitat Studies by Geospatial Visualization and Remote Sensing Technologies." *International Conference on "Biodiversity is Our Life,"* Center for Biodiversity and Conservation, Shah Abdul Latif University, Khairpur (Mir's), Sindh, Pakistan, December 29, 2010. *keynote lecturer*
2. "LIDAR Remote Sensing Technology for Forestry and Other Landuse Applications." *Presentation to Pakistan Forestry Officers and Scientists,* Center for Biodiversity and Conservation, Shah Abdul Latif University, Khairpur (Mir's), Sindh, Pakistan, December 30, 2010. *Invited lecture*
3. "Imagery Based Daily Traffic Volume Demand Mapping." *2010 Annual GRITS Conference,* Gulf Region Intelligent Transport Society, Baton Rouge, LA, November 16-18, 2010. (with Jessica Headrick)
4. "Sustainable personal rapid transit strategies for congested cities and urban communities." *2<sup>nd</sup> ICTI, International Conference Transport Infrastructure,* São Paulo, Brazil, August 4-6, 2010. (with Usman Uddin)
5. "Spaceborne Remote Sensing for Assessing Infrastructure Inventory, Traffic Demand, and Disaster Impacts." *Emerging Technologies Forum,* 2010 NED Alumni International Convention, Rosemont (Chicago), IL, July 31, 2010. *Invited lecture*
6. "Remote sensing and geospatial technologies in environmental sustainability applications." (sponsored by Centre for Biodiversity and Conservation), Shah Abdul Latif University, Khairpur, Sindh, Pakistan, July 13, 2010. *Invited lecture*
7. "Remote Sensing And Geospatial Technologies for Infrastructure Inventory, Traffic Demand, and Disaster Damage Assessment," hosted by Department of Geography, Karachi University, Karachi, Pakistan, July 7, 2010. *Invited lecture*
8. "Karachi Transportation Management," *Public Forum,* hosted by Urban Resources Department, Karachi, Pakistan, July 7, 2010. *Invited lecture*
9. "Spaceborne Remote Sensing Data for Inventory and Visualization of Transportation Infrastructure and Traffic Attributes." *First International Conference on Sustainable Transportation and Traffic Management and Third International Symposium on Infrastructure Engineering in Developing Countries (IEDC 2010),* Organized by NED University of Engineering and Technology in cooperation with Pakistan Higher Education Commission, US Agency for International Development, and University of Mississippi CAIT, Karachi, Pakistan, July 1-3, 2010. *Conference co-chair and keynote lecturer.*
10. "Environmental, Energy, and Sustainability Considerations for Life-Cycle Analysis of Pavement Systems." *International Workshop on Energy and Environment in the Development of Sustainable Asphalt Pavements,* US-China Workshop," Xian, China, (funded by NSF and China NSF), June 7-9, 2010. *Member of the U.S. Delegation and Invited lecture*

## Dr. Uddin's Invited Lectures and Keynote Speeches ..... continued

11. "Condition Assessment of Transportation Infrastructure Assets using Remote Sensing and Geospatial Technologies." ASCE Philadelphia Section, Structures Group Meeting (hosted by Group Chair, Dr. Mohiuddin Khan), April 26, 2010. *Invited lecture*
12. "Remote Sensing Assessment of Transportation Infrastructure and Bridge Assets." Presentation to New Jersey DOT, Bridge Division, April 26, 2010. *Invited lecture*
13. LIDAR Remote Sensing Technology for Airport Surveys and Obstruction Mapping." *2010 AAAE Airport GIS Conference*, American Association of Airport Executives, San Antonio, Texas, March 21-24, 2010. *Invited lecture*
14. "Monitoring Techniques for Assessing Pavement Integrity And Maintenance Needs." *Airport Pavement Design and Management Summit*, Singapore, January 26-27, 2010. *Invited lecture*
15. "U.S. Best Practices for Mitigation Management of Air Quality and Global Warming." Pearl Continental Hotel, Karachi, Pakistan, July 12, 2008, *Workshop on Air Quality and Global Warming*, sponsored by NED University in cooperation with USAID and Higher Education Commission of Pakistan. *Invited lecture*
16. "Enhancing Traffic Safety with ITS, Remote Sensing Technologies, and GIS." NESPAK, Lahore, Pakistan, July 2, 2008. *Invited lecture*
17. "GIS-based decision support system for infrastructure asset management, pollution mapping and disaster impact assessment." Noori Hospital Auditorium, Islamabad, Pakistan, June 27, 2008. *Invited lecture* to Pakistan Atomic Energy Commission staff.
18. "Geospatial Analysis for Infrastructure Design, Asset Management and Disaster Assessment." National Institute of Transportation, National University of Science and Technology (NUST), Risalpur, Pakistan, June 28, 2008. *Invited seminar* by Dr. Uddin and project overview by Dr. Ali.
19. "Pavement Recycling Practice in the U.S." *Recycling Symposium, 2008 ICTI, First International Conference Transport Infrastructure*, Beijing, China, 24-26 April 2008. *Invited lecture*
20. "LIDAR Survey for Airport Obstruction Chart and Visualization Applications." Session 396 Light Detection and Ranging (LIDAR) Obstruction Surveys and Visualization Technologies for Airports, Annual Meeting of Transportation Research Board, Washington, D.C., January 14, 2008.
21. "Use of Remote Sensing and Geospatial Technologies to Enhance Traffic Management and Disaster Response: Pak-USAID Project." National Highway Authority, Islamabad, Pakistan, July 9, 2007. *Invited lecture*
22. "Assessment of Transportation Related Safety and Public Health Impacts Using Remote Sensing and Geospatial Analysis Technologies." *Proceedings, 7th Malaysian Road Conference*, Kuala Lumpur, Malaysia, July 17-19, 2007, pp. 1-16. *Keynote Lecture*
23. "Pavement Engineering and Maintenance Management." *Workshop Lectures, Center for Infrastructure Engineering, Griffith University, Gold Coast Campus, Australia* (hosted and coordinated by Professor A.S. Balasubramaniam), September 28-29, 2006. *Invited Workshop Lecturer*

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24. "Safety and Pavement Management Systems." *2005 Southeast Local Roads Conference*, Savannah – Georgia, April 3-5, 2005. *Invited lecture*
25. "Transportation Related Environmental Impacts and Societal Costs For Life-Cycle Analysis of Costs and Benefits." *2005 International Symposium on Pavements Recycling*, São Paulo, Brazil, 14-16 March 2005. *Keynote Lecture*
26. "Air Quality Management Using Modern Remote Sensing and Spatial Technologies." *Environment 2005 International Conference: Sustainable Transportation in Developing Countries*, Abu Dhabi, UAE, January 30- February 2, 2005. *Invited lecture*
27. "Cost-Effective Environmental Assessment and Related Decision Making Using Modern Remote Sensing and Spatial Technologies." *Environmental Research & Wildlife Development Agency*, Abu Dhabi, UAE, August 3, 2004. *Invited lecture*
28. "Scanning for 3D Topographic Mapping and Visualization Applications." *2004 Mississippi Transportation Institute Conference*, Biloxi, Mississippi, November 9-10, 2004. (with Richard Tolbert) *Invited lecture*
29. "Applications of Modern Remote Sensing and Spatial Technologies for Infrastructure Asset Management." *NED University of Engineering and Technology*, Karachi, Pakistan, July 27, 2004. *Invited lecture*
30. "Modern Lidar and Spaceborne Remote Sensing Technologies for Transportation and Environmental Application." *Sir Syed University of Engineering*, Karachi, Pakistan, July 26, 2004. *Invited lecture*
31. "Transportation Corridor Planning." *International Conference on Transportation and Mobility: Strategic Initiatives Using Remote Sensing and GIS*; sponsored by Indian National Remote Sensing Agency, U.S. DOT Research and Program Administration, and National Consortium on Remote Sensing in Transportation (NCRST), Hyderabad, India, September 11-13, 2003. *Invited lecture*
32. "Airborne and Spaceborne Remote Sensing Terrain Mapping for Planning and Design of Transportation Infrastructure Assets." *2003 International Conference on Airports*, Rio de Janeiro, Brazil, June 8-11, 2003. *Invited lecture*
33. "Modern Asphalt Technology." Seminar at Mackenzie University, São Paulo, Brazil, June 5, 2003. *Invited seminar*
34. "Technological Control." *Thinking Outside The Box – Annual Blacktop Seminar*, Construction Industry Training Board & FAS, Co. Cavan, Republic of Ireland, April 11, 2003. *Invited lecture*
35. "Evaluation of Airborne LIDAR Digital Terrain Mapping for Highway Corridor Planning and Design." *Civil Engineering and Remote Sensing/Mapping Faculty of Istanbul Technical University*, Istanbul, Turkey, November 28, 2002. *Invited lecture*
36. "In Situ Characterization of Subgrade Bearing Capacity and Thickness Design of Dirt and Gravel Roads." *150<sup>th</sup> Anniversary Annual Convention – ASCE*, American Society of Civil Engineers, Washington, D.C., November 3-7, 2002. *Invited presentation*
37. "Finite Element Modeling and Simulation of FWD Dynamic Load Tests." FWD/ Backcalculation Workshop Proceedings, IST/LNEC, *Sixth Intl Conference on the Bearing Capacity of Roads, Railway, and Airfields*, Lisbon, Portugal, June 24-26, 2002, pp. 1-15. *Invited lecture*

## Dr. Uddin's Invited Lectures and Keynote Speeches ..... continued

38. "Oxford ITS Project." *Deep South Chapter of Institute of Engineers (ITE) Spring Meeting*, Philadelphia, Mississippi, February 8, 2001; Also, a presentation to Oxford Lions Club. *Invited lecture*
39. "Remote Sensing Technologies for Transportation Planning." *MSCI Spatial Industry Association, Mississippi Space Commerce Space Initiative (MSCI)*, Stennis Space Center, Mississippi, December 19, 2000. *Invited lecture*
40. "Nonlinear Material Modeling and Advanced Computer Simulations of Pavement Systems." *Simposio Internacional de Manutencao e Restauracao de Pavimentos e Controle Tecnologico*, Mackenzie University, São Paulo, Brazil, May 2000. *Invited lecture*
41. "3D Finite Element Modeling for Pavement Analysis & Design." *First International Conference on 3D-FE of Pavements*, sponsored by the Federal Highway Administration, the West Virginia University and Department of Transportation, Charleston, West Virginia, November 8-10, 1998. *Invited lecture*
42. "Pavement Nondestructive Evaluation by Deflection Testing." a training program sponsored by the *City of Leon Public Works Department*, Mexico, March 1996.
43. "Pavement Management System Development and Nondestructive Evaluation." *Sistema de Administracion del Mantenimiento Vial, Direccion de Obras Publicas, City of Saltillo*, Sponsored by the Secretaria de Desarrollo Social (SEDESOL), Mexico, November 1995.
44. "Structural Capacity and User Cost Analysis for Road Investment Planning." *International Conference on Roads and Road Transport Problems, ICORT-95*, Delhi, India, December 11-14, 1995, pp. 1000-1011 (with Victor Torres-Verdin). *Key Note Speaker*
45. "Maintenance Management of Highway and Transportation Infrastructure." *Roads Department, sponsored by the Director General of Public Works Department*, Brunei, September 25, 1995. *Invited lecture*
46. "Annual Major Maintenance Work Program, Budget Analysis, and Future Pavement Management Needs." Review of Pavement Management Services Unit Operations, *Roads Department, Dubai Municipality*, Dubai, UAE, July 1993.
47. "Nondestructive Evaluation of Highway Pavements Using PEDD1 Software." *Louisiana Transportation Research Center/Louisiana State University*, Baton Rouge, May 1994. *Invited lecture*