

ASHOK PANDIT

Professor and Program Chair
Civil Engineering Program
Florida Institute of Technology
Melbourne, Florida 32901-6988
(321) 674-7151, E-Mail: apandit@fit.edu

EDUCATION

Ph.D. Civil Engineering, Clemson University, 1982
M.S. Water Resources Engineering, Clemson University, 1975
B.S.C.E. Civil Engineering, Indian Institute of Technology, Kanpur, 1973

PROFESSIONAL EXPERIENCE

1998-Date Professor and Program Chair of Civil Engineering, Florida Institute of Technology
1987-1998 Associate Professor of Civil Engineering, Florida Institute of Technology
1982-1987 Assistant Professor of Civil Engineering, Florida Institute of Technology

MEMBERSHIP IN NATIONAL ORGANIZATIONS AND PROFESSIONAL AND SCIENTIFIC SOCIETIES

- Control Group Member of the ASCE Groundwater Quality Committee, Environmental Engineering Division, 1994-Date.
- Member of the ASCE Watershed Management Committee, Water Resources Engineering Division, 1998.
- Member of the ASCE Potable Groundwater Quality Committee, Environmental Engineering Division, 1993-1994.
- American Society of Civil Engineers
- Chi Epsilon, Civil Engineering Honor Society
- Florida Academy of Sciences.

RESEARCH ACTIVITIES: SELECTED PUBLICATIONS

- Pandit, A., and Regan, J., 1997. "Estimation of Curve Numbers by Calibration - Is the Impervious Curve Number Really 98?" paper submitted to *ASCE Journal of Hydrologic Engineering*, under review.
- Pandit, A., and Gopalakrishnan, G., 1997. "Estimation of Annual Pollutant Loads Under Wet Weather Conditions." *ASCE Journal of Hydrologic Engineering*, Vol. 2, No. 4, pp 211-218.
- Pandit, A., White, J. H., Kakoullis, A. A., Akula, S. B., and David, J. R. 1997. " Volumetric Exchanges Between a Managed Marsh and a Coastal Estuary." *Florida Scientist*, Vol. 60, No. 4, pp 223-235.
- Pandit, A., Panigrahi, B . K., Peyton, L, Reddi, L. N., Sayed, S. M., and Emmett, H., 1997. "Groundwater Flow and Contamination Models: Description and Evaluation." *ASCE Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management*, Environmental Engineering Division, Vol. 1, No. 3, pp 127-138.
- Gopalakrishnan, G. and Pandit, A., 1997. "Sediment Removal Boxes-A Hydraulic Model Study." *Proceedings of IECA, 28th Annual Conference*, February 28-March 2, Nashville, Tennessee, pp 363 - 376.

- Reposa, J. H., and Pandit, A., 1997. "Estimation of Nutrient and Sediment Losses from a Citrus Grove Using EPIC Under Different Fertilization and Irrigation Schemes." *Proceedings of the Stormwater and Water Quality Management Modeling Conference*, February 20-21, Toronto, Canada.
- Pandit, A., 1998. "Turkey Creek Watershed Modeling Study, Assessment of Current and Annual Pollutant Loads and BMPs" Final Report, Prepared for the City of Palm Bay, Florida, 160 pages.

Proposed CUAP Research Area: *Watershed Pollution Modeling*. Dr. Pandit is interested in studying the effects of non-point sources within urbanizing watersheds on surface water bodies. Recent Reports of Congress have identified storm water generated from urban areas as the number one cause of deterioration of the water quality of the nation's rivers. He has conducted several studies related to this topic. This research has 1) Developed a Continuous Annual Load Simulation Model (CALSIM) to determine annual or average annual pollutant loads from a watershed, 2) Studied the effects of rainfall-runoff relationships on impervious surfaces and field evaluated these relationships for asphalt and concrete pavements, and 3) Estimated the pollution from citrus groves using existing agricultural models. He has considerable experience in both surface and subsurface modeling and is presently conducting studies on 1) prediction of saltwater intrusion in coastal estuaries and 2) development of best management practices (BMPs) for reducing watershed pollutant loads. We propose to collaborate with one or more BUTE faculty in these areas and to apply these modeling techniques to Hungary's unique watershed problems.

Principal Investigators: Dr Ashok Pandit, Soon-Min Yoon (doctoral student), Chi Youn (doctoral student), Steven Medeiros (MS student) (all Florida Tech; BUTE collaborators TBD)

First project year costs: travel and subsistence for one faculty member.

Subsequent years' costs: TBD