



# University of Connecticut

Department of Civil and Environmental Engineering  
Environmental Engineering Program  
261 Glenbrook Road  
F.L. Castleman Building, Room 308  
Storrs, CT 06269-2037, U.S.A.

Tel: +1 860 486-6806  
Fax: +1 860 486-2298  
E-mail: [manos@engr.uconn.edu](mailto:manos@engr.uconn.edu)  
<http://www.engr.uconn.edu/~manos>

## Resume of

# Emmanouil N. Anagnostou

Revised: 05/2002

Date of Appointment: 1999

**Birthdate:** 02/27/68

## Education:

- |       |      |  |
|-------|------|--|
| Ph.D. | 1997 | <i>Hydrometeorology</i> , University of Iowa, Civil and Environmental Engineering.                                     |
| M.S.  | 1994 | <i>Hydrometeorology</i> , University of Iowa, Civil and Environmental Engineering.                                     |
| B.S.  | 1990 | <i>Hydrology &amp; Water Resources</i> , National Technical University of Athens, Civil and Environmental Engineering. |

## Experience:

- |           |  |
|-----------|--|
| 2002      | In tenure review for Associate Prof., Dep. of Civil Eng., Univ. of Conn.   |
| 1999-2002 | Assistant Professor, Depart. of Civil Engineering, Univ. of Connecticut    |
| 1999-     | Adjunct Research Scientist, National Observatory of Athens, Greece         |
| 1998-1999 | Visiting Researcher, Depart. of Agric. Engineering, Univ. of Padova, Italy |
| 1997-1999 | Visiting Scientist, Laboratory for Atmospheres, GSFC, NASA                 |
| 1992-1997 | Research Assistant, Iowa Institute of Hydraulic Research, Univ. of Iowa    |
| 1990-1992 | Research Assistant, National Technical University of Athens, Greece        |

## Professional Societies:

American Geophysical Union (AGU)  
American Society of Civil Engineers (ASCE)  
American Water Resources Association (AWRA)  
American Meteorological Society (AMS)  
Greek Society of Civil Engineers

## **Areas of Research Interest:**

Remote sensing applications in hydrometeorology and the prediction of hydrologic hazards (floods, severe weather, lightning, etc.).

Development of new technologies and techniques on precipitation remote sensing.

Analysis and prediction of atmospheric and surface hydrologic variables through the assimilation of remotely sensed precipitation data in dynamic models and physically based radar/radiometer algorithms.

Design, operation, and analysis of experimental investigations of hydro-meteorological systems.

## **Major Honors & Awards:**

2002 *Outstanding Junior Faculty Award*, by the School of Engineering of the University of Connecticut for achievements in research and education.

2002 *EGS Plinius Medal*, from the Interdisciplinary Working Group on Natural Hazards of the European Geophysical Society. This medal is reserved for excellent young scientists with outstanding achievements in a field related to Natural Hazards, with important interdisciplinary activity in two or more fields related with this topic and whose research has been on the mitigation of natural risks.

2002 *NSF CAREER Award*, awarded by the Geosciences program of National Science Foundation for proposal entitled "Improved knowledge on precipitation microphysics for advancing radar rainfall estimation and quantitative precipitation forecasting". This is a highly competitive multi-year award aiming the support of faculty with high potential in the beginning of their professional career.

1999 *NASA New Investigator Award*, awarded by NASA Earth Science Directorate for proposal entitled "Understanding the Error Characteristics of Precipitation Estimates from Space-Based Observing Systems." Competition for this multi-year award is high and open to all earth scientists and engineers nationwide being at an early stage (six years from Ph.D.) of their professional careers.

1998 *Marie Curie Award*, awarded by the Environment and Climate Program of the Commission of the European Community for proposal entitled "Rainfall-Runoff Modeling as Basis for Radar-Rainfall Validation Studies." This highly competitive two-year award was to support research conducted by ENA as visiting researcher at the University of Padova.

**Other Honors & Awards:**

- 2002, Appointed leader of the Floods Working Group of NASA's International Global Precipitation Measurement (GPM) mission.
- 2001, Invited panelist/reviewer for the review of NASA's Earth Science Directorate New Investigator Program proposals.
- 2001, Member of the Organizing Committee of the 7<sup>th</sup> International Conference on Precipitation.
- 2001, *Who's Who in the World*, 18<sup>th</sup> Edition.
- 2001, *Who's Who in America*, 20<sup>th</sup> Edition.
- 2000, Appointed Associate Editor in the *Journal of Applied Meteorology*.
- 2000, Chair of the Radar Observations Session of the TRMM Field Campaigns Workshop, May 22-26, 2000, Salt Lake City, Utah.
- 2000 *Large Faculty Grant Award*, awarder by the Research Foundation of the University of Connecticut.
- 2000 *Research Initiative Award*, awarded by the School of Engineering of the University of Connecticut for proposal entitled "Assessing the Potential of a New Weather Radar Technology in Improving Flood-Forecasting Accuracy".
- 2000, *Outstanding Scholars of the 21<sup>st</sup> Century Award*.
- 1999, Appointed science team member of NASA's *Tropical Rainfall Measuring Mission* (TRMM).
- 1999 *Special Achievement Award*, awarded by the Civil & Env. Engineering Department of the University of Connecticut for achievements in research and education in the 1998-99 academic year.
- 1996 *Outstanding Student Paper Award*, awarded by the AGU's Spring Meeting Hydrology Session.
- 1995 *Universities Space Research Association and NASA scholarship* awarded to participate at the 1995 Graduate Student Summer Program.
- 1990, Professional Engineer, Greek Society of Civil Engineers, Athens, Greece.

## Journal Peer-Reviewed Publications:

\* Graduate student or post-doc

1. E.N. Anagnostou, and C. Morales\*, “Rainfall Estimation from TOGA Radar Observations during LBA Field Campaign”, Journal of Geophysical Research-Atmospheres, 2002 (in press).
2. E.N. Anagnostou, T. Chronis\*, and D.P. Lalas, “A New VLF Receiver Network in Europe (ZEUS) Advances Long-Range Lightning Monitoring.” EOS Feature Article, American Geophysical Union (submitted).
3. N. Agarwal\* and E.N. Anagnostou “Investigating Improvements in Precipitation Classification from Ground Based Weather Radar Observations,” Hydrologic Processes Journal, 2002 (in review).
4. M. Grecu\*, and E.N. Anagnostou, “Use of passive microwave observations in a radar rainfall profiling algorithm.” Journal of Applied Meteorology, 2002 (in press).
5. C. Morales\*, and E.N. Anagnostou, "Extending the Capabilities of Rainfall Estimation from Satellite Infrared via a Long-Range Lightning Network Observations ", Journal of Hydrometeorology, 2002 (accepted).
6. C. Morales\*, J. Weinman, and E.N. Anagnostou, “Continuous Long-Range Thunderstorm Monitoring by a VLF Receiver Network Part I: Location Error Analysis.” Journal of Atmospheric and Oceanic Technology, 2002 (in review).
7. C. Morales\*, J. Weinman, and E.N. Anagnostou, “Continuous Long-Range Thunderstorm Monitoring by a VLF Receiver Network Part II: Cloud-to-Ground and Intra-Cloud Detection Efficiency.” Journal of Atmospheric and Oceanic Technology, 2002 (in review).
8. F. Hossain\*, E.N. Anagnostou, and M. Borga, “Hydrological model sensitivity to parameter and radar rainfall estimation uncertainty.” Hydrologic Processes Journal, 2002 (in review).
9. T. Dinku\*, E.N. Anagnostou, and M. Borga, “Improving Radar-Based Estimation of Rainfall Over Complex Terrain”, Journal of Applied Meteorology, 2002 (conditionally accepted).
10. E.N. Anagnostou, C. Morales\*, and T. Dinku\*, "The Use of TRMM Precipitation Radar Observations in Determining Ground Radar Calibration Biases," Journal of Atmospheric and Oceanic Technology, **18**, 616-628, 2001, (times cited: 0).
11. M. Grecu\* and E.N. Anagnostou, “Overland Precipitation Estimation from TRMM Passive Microwave Observations,” Journal of Applied Meteorology, **40** (8), 1367-80, 2001, (times cited: 0).

12. E.N. Anagnostou and C.A. Morales\*, "TRMM Precipitation Radar Helps Address Problems of Ground Weather Radar Systems," EOS Feature Article, American Geophysical Union, **81**(44), Pages 513 & 517, 2000, (times cited: 1).
13. M. Borga, E.N. Anagnostou, and E. Frank, "On the use of real-time radar rainfall estimates for flood prediction in mountainous basins," Journal of Geophysical Research-Atmospheres, **105**(D2), 2269-2280, 2000, (times cited: 4).
14. Negri, E.N. Anagnostou, and R. Adler, "A 10-year Climatology of Amazonian Rainfall Derived from Passive Microwave Satellite Observations," Journal of Applied Meteorology, **39**(1), 42-56, 2000, (times cited: 0).
15. M. Grecu\*, E.N. Anagnostou, and R.F. Adler, "Assessment of the Use of Lightning Information in Satellite Infrared Rainfall Estimation," Journal of Hydrometeorology, **1**, 211-221, 2000, (times cited: 2).
16. E.N. Anagnostou, and W.F. Krajewski, "Real-Time Radar Rainfall Estimation: 1. Algorithm Formulation," Journal of Atmospheric and Oceanic Technology, **16**(2), 189-197, 1999, (times cited: 6).
17. E.N. Anagnostou, and W.F. Krajewski, "Real-Time Radar Rainfall Estimation: 2. Case Study," Journal of Atmospheric and Oceanic Technology, **16**(2), 198-205, 1999, (times cited: 6).
18. E.N. Anagnostou, W.F. Krajewski, and J. Smith, "Uncertainty Quantification of Mean-Field Radar-Rainfall Estimates," Journal of Atmospheric and Oceanic Technology, **16**(2), 206-215, 1999, (times cited: 9).
19. E.N. Anagnostou, A. Negri, and R. Adler, "Statistical Adjustment of Satellite Microwave Monthly Rainfall Estimates," Journal of Applied Meteorology, **38**, 1590-1598, 1999, (times cited: 1).
20. E.N. Anagnostou, A. Negri, and R. Adler, "Satellite Observations of the Diurnal Variability of Rainfall in Amazonia," Journal of Geophysical Research-Atmospheres, **104**(D24), 31477-31488, 1999, (times cited: 3).
21. E.N. Anagnostou, and W.F. Krajewski, "Calibration of the WSR-88D Precipitation Processing Subsystem," Weather and Forecasting, **13**, 396-406, 1998, (times cited: 8).
22. E.N. Anagnostou, W.F. Krajewski, D.-J. Seo, and E.R. Johnson, "Mean-Field Radar Rainfall Bias Studies for WSR-88D," ASCE Journal of Hydrologic Engineering, **3**, 149-159, 1998, (times cited: 9).
23. E.N. Anagnostou and W.F. Krajewski, "Simulation of Radar Reflectivity Fields: Algorithm Formulation and Evaluation," Water Resources Research, **33**(6), 1419-28, 1997, (times cited: 6).

24. E.N. Anagnostou and C. Kummerow, "Stratiform and Convective Classification of Rainfall Using Satellite 85 Ghz Brightness Temperature Observations," Journal of Atmospheric and Oceanic Technology, **14**(3), 570-75, 1997, (times cited: 9).
25. M. Borga, E.N. Anagnostou, and W.F. Krajewski, "A Simulation Approach for Validation of a Bright Band Correction Method," Journal of Applied Meteorology, **36**, 1507-18, 1997, (times cited: 8).
26. G.J. Ciach, W.F. Krajewski, E.N. Anagnostou, M.L. Baeck, J.A. Smith, J.R. McCollum, and A. Kruger, "Radar Rainfall Estimation for Ground Validation Studies of the Tropical Rainfall Measuring Mission," Journal of Applied Meteorology, **36**(6), 735-747, 1997, (times cited: 9).
27. D. Tsintikidis, J.L. Haferman, E.N. Anagnostou, W.F. Krajewski, and T.F. Smith, "A Neural Network Approach to Estimating Rainfall from Spaceborne Microwave Data," IEEE Transactions in Geoscience and Remote Sensing, **35**(5), 1997, (times cited: 8).
28. J.L. Haferman, E.N. Anagnostou, D. Tsintikidis, W.F. Krajewski, and T.F. Smith, "Physically Based Satellite Retrieval of Precipitation using a 3D Radiative Transfer Model," Journal of Atmospheric and Oceanic Technology, **13**(4), 1996, (times cited: 8).
29. W.F. Krajewski, E.N. Anagnostou, and G.J. Ciach, "Effects of the Radar Observation Process on Inferred Rainfall Statistics," Journal of Geophysical Research-Atmospheres, **101**(D21), 1996, (times cited: 1).

*Six manuscripts are in preparation for submission by the end of 2002.*

### **Conference Proceedings Papers:**

1. E.N. Anagnostou, C.A. Morales\*, T. Dinku\*, "Identification of WSR-88D calibration biases from TRMM radar reflectivity observations," 29<sup>th</sup> International Conference on Radar Meteorology, July 1999 (*Selected for inclusion on the cover page of the conference proceedings*).
2. E.N. Anagnostou, A. Negri, and R. Adler, "Adjustment of Microwave Monthly Rainfall Estimates Over Land," in the proceedings of the 9th conference on Satellite Meteorology and Oceanography, Paris, May 1998.
3. Negri, E.N. Anagnostou, and R. Adler, "A 10-year Climatology of Amazonian Rainfall Derived from Passive Microwave Satellite Observations," in the proceedings of the 9th conference on Satellite Meteorology and Oceanography, Paris, May 1998.
4. E.N. Anagnostou, W.F. Krajewski, and J. Smith, "Quantification of Radar Rainfall Estimation Uncertainty," proceedings of the 13th Conference on Hydrology, AMS, Long Beach, February 2-7, 1997.

5. E.N. Anagnostou, W.F. Krajewski, and F.L. Ogden, "Simulation of Radar Remote Sensing of Rainfall as a Framework for Runoff Studies," proceedings of the III International Symposium on Hydrological Applications of Weather Radar, Sao Paulo, Brazil, August 1995.
6. E.N. Anagnostou and W.F. Krajewski, "Three-dimensional Physically Based Multiparameter Radar Simulation," proceedings of the 1994 Atmospheric Propagation and Remote Sensing III Conference, April 4-8, 1994, Orlando, Florida.
7. E.N. Anagnostou, J.L. Haferman, W.F. Krajewski, T.F. Smith, "Comparison of Microwave Brightness Temperatures and Radar Reflectivity Measurements," proceedings of the 1994 Atmospheric Propagation and Remote Sensing III Conference, April 4-8, 1994, Orlando, Florida.
8. E.N. Anagnostou, W.F. Krajewski, K.P. Georgakakos, M.A. Mimikou, "Radar Estimates of Rainfall in Greece and Radar-Rainfall Prediction Using Statistical Extrapolation Techniques," proceedings of the 1992 II International Symposium on Hydrological Applications of Weather Radar, University of Hannover, 7-10 September, 1992, Germany.
9. M. Borga, E.N. Anagnostou, and W.F. Krajewski, "Propagation of Radar-Rainfall Estimation Errors in Rainfall-Runoff Modeling," proceedings of the 13th Conference on Hydrology, AMS, Long Beach, February 2-7, 1997.
10. M. Borga, E.N. Anagnostou, and W.F. Krajewski, "Validation of a Method for Vertical Profile of Reflectivity Identification Using Simulation," proceedings of the III International Symposium on Hydrological Applications of Weather Radar, Sao Paulo, Brazil, August 1995.
11. D. Tsintikidis, G.J. Ciach, W.F. Krajewski, and E.N. Anagnostou, "Radar Anomalous Echo Detection Using Neural Networks," proceedings of the III International Symposium on Hydrological Applications of Weather Radar, Sao Paulo, Brazil, August 1995.

### **Dissertation and Thesis:**

1. E.N. Anagnostou, "Real-Time Radar Rainfall Estimation," Ph.D. thesis submitted to the Civil and Environmental Engineering Department of The University of Iowa, Iowa City, IA, May 1997.
2. E.N. Anagnostou, "Three-Dimensional Simulation of Radar Rainfall Observations." M.S. thesis submitted to the Civil and Environmental Engineering Department of The University of Iowa, Iowa City, IA, 1994.
3. E.N. Anagnostou, "Robustness Test of a Water Balance Model for Simulation of Climate Change Hydrological Impacts." B.S. thesis submitted to the Department of Hydrology, Hydraulics, and Water Resource Planning and Management of the National Technical University of Athens, Athens, Greece, 1990.

## Invited Presentations, Seminars & Lectures:

1. "Hydrologic Remote Sensing", Aphrodite Lecture Series, CIMA - Centro di Ricerca Interuniversitario In Monitoraggio Ambientale, Università di Genova, Italy, June 2002.
2. "Real-time multi-sensor based rainfall monitoring and its implications on advancing flood forecasting accuracy." 2002 EGS Plinius Medal lecture, EGS International Symposium, Nice, France, April 21, 2002.
3. "Global rainfall monitoring from multiple space based platforms and long-range ground sensor lightning measurements." Keynote presentation at the 5<sup>th</sup> International Precipitation Conference, June 30-July 4, 2001, Maine, USA.
4. "Radar rainfall estimation uncertainty and its implications on flood prediction accuracy." Invited presentation at the 2<sup>nd</sup> EGS Plinius Conference on Mediterranean Storms, Siena, Italy, 2000.
5. "Overland precipitation estimation from TRMM microwave observations." Seminar presented at the Institute of Atmospheric Physics of the Italian Research Council, Rome, Italy, 2000.
6. "On the ground-based radar calibration problem." Invited presentation at the European Geophysical Symposium, Niece, France, April 2000.
7. "The role of WSR-88D in TRMM research." Invited presentation at the WSR-88D workshop of NCDC, December 2-3, 1999.
8. "On the use of satellite data for monitoring precipitation in semi-arid climatic regions." Invited by the Institute of Meteorology and Hydrology of the state of Ceara (FUNCEME), Brazil, August 20-25, 1999.
9. "A satellite infrared technique for diurnal rainfall variability studies." Seminar presented at MIT, January 1999.
10. "On the use of real-time radar rainfall estimates for rainfall-runoff prediction in mountainous basins." Seminar presented at the Office of Hydrology, National Weather Service, November 1998.
11. "Remote Sensing Rainfall Estimation and Applications." Seminar presented at the Civil and Environmental Engineering Department of the University of Connecticut, May 1998.
12. "Real-Time Radar-Rainfall Estimation and Validation." Seminar presented at the School of Meteorology of the University of Oklahoma, April 1998.

13. "Development of Precipitation Climatologies over the Amazon Region Using SSM/I Data." Seminar presented at the Water Resources Department of Georgia Institute of Technology, November 1997.
14. "Mean-Field Radar Rainfall Bias Studies for NEXRAD." Seminar presented at the Office of Hydrology, National Weather Service, May 1996.
15. "Radar Rainfall Estimation With Quantification of Estimation Uncertainty." Seminar presented at NASA, Goddard Space Flight Center, May 1996.

### Technical Reports:

1. W.F. Krajewski, J.A. Smith, V. Chandrasekar, E.N. Anagnostou, M.L. Baeck, G.J. Ciach, M. Grecu, A. Kruger, J.R. McCollum, M. Steiner, R. Xiao, "Radar-rainfall estimation studies for TRMM ground validation." IIHR Technical Report No. 379, Iowa Institute of Hydraulic Research, The University of Iowa, 1996.

### Funded Research:

*U.S. Grants:* Total funding **\$2,504,800** for a period spanning from 1999 to 2004.

1. Calibration of Ground-Based Weather Radar Systems From TRMM Space-Based Radar Observations: A Demonstration Project, Tropical Rainfall Measuring Mission-NASA, Single P.I.: E.N. Anagnostou, **\$340,000 (1/1/1999 – 12/31/2001)**.
2. Understanding the Error Characteristics of Precipitation Estimates from Space-Based Observing Systems, New Investigator Program-NASA, Single P.I.: E.N. Anagnostou, **\$327,000 (10/1/1999-9/30/2002)**.
3. Rainfall Remote Sensing, NASA EPSCoR Preparation Grant Proposal, thrust area 4 - Remote sensing, PI of Remote Sensing of Rainfall research topic, **\$10,000 (9/1/99-5/1/01)**.
4. Investigating the Adequacy of TRMM Precipitation Radar Observations for Calibrating Ground-Based Weather Radar Reflectivity Measurements, NASA-Tropical Rainfall Measuring Mission, Single P.I.: E.N. Anagnostou, **\$375,000 (1/1/2001-12/31/2003)**.
5. Assessing the Potential of a New Weather Radar Technology in Improving Flood Forecasting Accuracy, School of Engineering-Research Initiative Award, University of Connecticut, Single P.I.: E.N. Anagnostou, **\$20,000 (2/1/00-12/31/00)**.
6. Experimental Investigation of X-band Polarimetric-Radar Rainfall Estimation for Support of High-Resolution Hydrologic Predictions, Faculty Large Research Grant Program, Research Foundation, Single P.I.: E.N. Anagnostou, **\$18,800 (8/1/00-9/1/01)**.

7. Experimental Investigation of X-band Polarimetric-Radar Rainfall Estimation, NSF-Geosciences, Co-PIs: E.N. Anagnostou and W.F. Krajewski, **\$146,313 (9/1/00-9/1/01)**.
8. Assimilation of TRMM-calibrated rainfall data derived from infrared sensors in DAO's global model, NASA/GSFC, **\$32,207 (11/1/00-8/31/01)**.
9. Deployment of a mobile polarimetric X-band radar and in situ instrumentation to support QPE and microphysical studies of tropical systems in CAMEX-4, Earth Sciences-NASA, **\$360,231 (6/1/01 – 5/31/04)**.
10. A real-time risk-based highway accident prevention system (RiskHAPS): A proactive safety approach, MIT-New England University Transportation Center (USDOT), Co-Pis: W. ElDessouki, J.N. Ivan, and E.N. Anagnostou, **\$63,390 (9/1/01 – 8/31/02)**.
11. Investigation of Thunderstorm Monitoring from an Experimental Sferics Receiver Network, NASA Earth System Science Fellowship, PI E.N. Anagnostou (awarded student: Mr. Themis Chronis), **\$66,000 (9/1/01-8/31/04)**.
12. Multi-Sensor Precipitation Estimation and Investigating Improvements on Weather and Climate Analysis, Earth Sciences-NASA, PI: E.N. Anagnostou, **\$242,000 (1/1/02-12/31/04)**.
13. CAREER: Improved knowledge on precipitation microphysics for advancing radar rainfall estimation and quantitative precipitation forecasting, NSF-Geosciences, PI: E.N. Anagnostou, **\$420,000 (3/1/02 – 12/1/06)**.
14. GAPP: Development of Space-Borne Multi-Sensor Precipitation Retrieval to Support Hydrologic Modeling Studies in GAPP, NOAA-Office of Global Programs, PI: E.N. Anagnostou, **\$224,265 (9/1/02-9/1/05 - pending)**.

*E.U. Grants:* Funds from those grants have been used for partial support of two international graduate students at the University of Connecticut, and for acquiring specialized research equipments (mobile weather radar, disdrometer, and for deploying a long-range lightning detection network in Europe) used to support Prof. Anagnostou's international research program.

1. Rainfall-Runoff Modeling as Basis for Radar-Rainfall Validation Studies, Marie Curie Research Fellowship, XII Agency of The European Community, P.I.: E.N. Anagnostou, **\$100,000 (1/1/1999 – 12/31/2000)**.
2. Development of a mobile weather radar system, European Union, XII Agency, P.I. E.N. Anagnostou and D. Lalas, **\$700,000 (1/1/1999 – 12/31/2000)**.
3. Deployment of a long-range lightning monitoring network in Europe, European Union, XII Agency, P.I. E.N. Anagnostou and D. Lalas, **\$400,000 (9/1/1999 – 9/1/2001)**.

4. European Contribution to the Global Precipitation Mission, multi-agency proposal submitted to the European Space Agency, E.N. Anagnostou is member of the PI team (12 members), ~\$120,000,000 (1/1/2003 – 12/31/2007, recommended for funding).

### **Graduate Advising:**

#### ***Master's Degree Advising (with thesis):***

Current Advising:	Major advisor=2	Associate advisor=0
Total completed to date:	Major advisor=2	Associate advisor=2

#### ***Ph.D. Advising:***

Current Advising:	Major advisor=7	Associate advisor=0
Total completed to date:	Major advisor=1	Associate advisor=4

#### ***List of Major Advisees With Thesis Option:***

1. *Carlos Morales, Ph.D.*, Spring of 2001  
Thesis Title: Continuous thunderstorm monitoring from combination of satellite infrared and long-range lightning observations.
2. *Tufa Dinku, M.S.*, Spring of 2001  
Thesis Title: Improving radar based estimation of rainfall over complex terrain.
3. *Neeraj Agarwal, M.S.*, Spring of 2001  
Thesis Title: Investigating improvements in precipitation classification from ground based weather radar observations.
4. *Faisal Hossain, Ph.D.*, Expected graduation Spring of 2004.
5. *Themis Chronis, Ph.D.*, Expected graduation Fall of 2004.
6. *Marios Anagnostou, Ph.D.*, Expected graduation Fall of 2004.
7. *Tufa Dinku, Ph.D.*, Expected graduation Fall of 2004.
8. *Shah Agarwal, Ph.D.*, Expected graduation Fall of 2005.
9. *Shah-Newaz, Ph.D.*, Expected graduation Fall of 2005.
10. *Dagang Wang, Ph.D.*, Co-advise with Prof. Guiling Wang, Expected graduation Spring 2005.
11. *Alemu Tadese, M.S.*, Expected graduation Spring of 2003.
12. *Ryan Knox, M.S.*, Co-advise with Prof. F.L. Ogden, Expected graduation Spring 2004.

***Teaching Load:*** ~2 courses/year

**Graduate Courses:** CE - 304 Probabilistic Methods in Environmental Systems  
 CE - 383 Hydrometeorology  
 CE - 320 Hydrologic Remote Sensing

**Undergraduate Courses:** CE - 267 Engineering Hydrology  
 CE - 297 Fluid Mechanics  
 CE - 265 Hydraulic Engineering  
 CE – 251 Civil Engineering Systems

### **Ad Hoc Reviews for Journals and Granting Agencies**

National Science Foundation - Geoscience program

NASA, Earth Sciences - New Investigator Program  
 Earth Science Fellowship Program  
 Tropical Rainfall Measuring Mission program  
 Global Energy and Water Cycle program

NOAA - Office of Global programs

European Union - Natural Hazards program (section on floods)

Journals - American Water Resources Association  
 Hydrological Sciences Journal  
 Journal of American Water Resources Association  
 Journal of Applied Meteorology  
 Journal of Hydrometeorology  
 Journal of Atmospheric and Oceanic Technology  
 Journal of Geophysical Research - Atmospheres  
 Journal of Hydrology  
 Meteorological Applications  
 Water Resources Research

Associate Editor - Journal of Applied Meteorology, 2000 - current

### **University of Connecticut:**

#### *Departmental Committees*

- |  |                |
|--|----------------|
| 1. CEE curriculum and courses committee          | 2000 - current |
| 2. Computational committee                       | 2000 - current |
| 3. Environmental faculty search committee        | 2000           |
| 4. Transportation faculty search committee       | 2001           |
| 5. Hydrology/Water res. search committee – Chair | 2002           |

*University Activities/Committees:*

Reviewer to research foundation Large Faculty Grant proposals.

**Consulting Services Provided by E.N. Anagnostou:**

1. **Services Provided to:** to the National Observatory of Athens, Greece, for the design and research implementation of a mobile hydrometeorological observatory. Jan 1999 to Dec of 2001.
2. **Services Provided to:** the Town of Simsbury, Connecticut, through its legal counsel Robinson & Cole LLP, for conducting expert statistical assessment of the soil remediation sampling program proposed by a residential developer, Jun to July of 2000.
3. **Services Provided to:** to Binet Inc., Oklahoma, for the development of a polarimetric radar rainfall estimation algorithm, January – September 2000.
4. **Services Provided to:** to Resolution Displays Inc., Virginia, for the development of an optimization algorithm to be used in lightning detection from a network of VLF radio receivers, June to December 2000.
5. **Services Provided to:** Norton Engineering for a hydrologic/hydraulic design study associated with a large housing development in West Hartford area.