Name: Anandakumar Karipot

Rank: Assistant Research Scientist

% Salary Budgeted: Instr. Res. 100 % Ext. Outreach

Program Overview:
Research on micrometeorological and environmental physics topics, which include role of forests and agricultural crops in sequestering carbon and their potential in reducing global warming; exchange of trace gases, water vapor, heat and momentum between forests and atmosphere; micrometeorological techniques for agricultural applications; micrometeorological and boundary layer measurements for various atmospheric/ environmental applications.

Education:
Ph. D. in Atmospheric Sciences (1996)
University of Agriculture, Forestry and Natural Renewable Resources; Vienna, Austria.

Employment:
2000 – present: Assistant research scientist, Crop and soil sciences, University of Georgia

Membership in Professional Societies
Member, International Society of Biometeorology.
Member, International Association for Urban Climate

Awards: Nil

Contributions to Teaching
Service on Graduate Advisory Committee: Graduate committee member (MS student), 2001-2003.

Contributions to Research and Other Creative Activities

i) No. of refereed papers/by journal: 13
(Agricultural and Forest Meteorology – 4, Journal of Theoretical and Applied Climatology – 2, Boundary Layer Meteorology – 1, Journal of Applied Meteorology and Climatology – 1, Atmospheric Environment – 1, Proceedings of Indian Academy of Sciences (Earth and Planetary Sciences) – 1, Journal of Aerospace Engineering (Part G) – 1, Annual Review of Agricultural Engineering – 1, Journal of ASTM international – 1)

ii) **No. of abstracts**: 16

Contributions to Extension: Nil

Sources of Grants/amounts:

1. National Peanut Board, 2005, $24,700.00 (Co-Principal Investigator).
2. University of Georgia Research Foundation, Inc, 2005, $6,920.00 (Principal Investigator).
3. NASA Space grant, 2005, 5,000.00 (Principal Investigator).
4. National Institute for Global Environmental Change (NIGEC), US Department of Energy, 2004-2007, $446,786.00 (Co-Principal investigator).
5. Terrestrial Carbon Processes, US Department of Energy, 2003-2006, $601,000.00 (Co-Principal investigator).
6. Georgia Peanut Commission, 2003, $14,000.00 (Co-Principal investigator).

Contributions to Professional Service: (committee service to department, college, university, and/or professional societies)

Member, Griffin Campus Library Committee

Advisor, Executive board, International Society of Biometeorology.

Committee member, American Meteorological Society Committee on Biometeorology and Aerobiology.

Goals for the Next Five Years:

Continue research on:

- Vegetation – Atmosphere interaction, CO_2 exchange between forests and atmosphere
- Micrometerorological measurements and quality assessment
- Atmospheric diffusion and transport over inhomogeneous surfaces
- Micrometeorological techniques for agricultural applications