

Title**First Name** Mohammed Aslam

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Middle Name Khan**Permission date****Last Name** Khalil**Photo****Institution** PSU**Department** Physics**Email** khalilm@pdx.edu**Website****Phone****Research Fields**

- Atmospheric chemistry
- Biogeochemistry
- Carbon Footprint Analysis
- Climatology
- Community & Disaster Planning
- Data Analysis & Statistical Modeling
- Ecology & Ecosystem Management
- Economics
- Energy policy & technology
- Ethics
- Fire
- Forestry & Forest Management
- Geographic Information Systems
- Horticulture
- Human Impacts - economics
- Human Impacts - health
- Human Impacts - policy
- Hydrology
- Impacts - agriculture & horticulture
- Impacts - ecosystems, populations
- Impacts - physical
- Instrumentation
- Mitigation Policy
- Modeling Climate
- Modeling Ecosystems
- Modeling Socioeconomic Processes
- Natural Resource Policy & Planning
- Outreach & Engagement
- Paleoclimatology
- Paleoecology
- Physical Ecology
- Physiological Ecology
- Urban Ecology
- Water Policy & Planning
- Other...

Specific Research Interests

My work is related to the foundations of man-made global warming. It deals primarily with the causes of increasing levels of greenhouse gases and the mechanisms that will determine their future concentrations, and hence global warming. In addition to that, my research group and I work on and with climate models. Our original work is confined to simpler one-dimensional radiative convective models. For other research on how climate change may affect emissions of gases and thus cause feedbacks, we are users of the models available to the public.

Projects

Emissions of Greenhouse Gases from Rice Agriculture 3 years (2004-2007) \$1,490,000

Selected Recent Publications

Titles not exact.

1. Gary Gross – OH chemistry in a general circulation climate model Ph.D
2. Karen Bahm – OH atmospheric chemistry model - M.S.
3. Chris Butenhoff – Global chemistry transport model of the atmosphere – M.S

Professional Activities

- Member: NCEAS group on Atmospheric Methane
- See Oregonian Science Section Feb 28th 2007
- Environmental Science and Technology - Science News story, March 2007