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Irina N. Sokolik

CURRICULUM VITAE

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PERSONAL DATA:

Born: January 1, 1961, Former USSR (Naturalized U.S. citizen)

EDUCATION:

1984	M.S.	Atmospheric physics	Moscow Institute of Physics and Technology
1989	Ph.D.	Atmospheric physics	Russian Academy of Sciences, Moscow

EMPLOYMENT HISTORY:

2003-present	Professor, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA.
1999-2003	Associate Professor, Program in Atmospheric and Oceanic Sciences, University of Colorado at Boulder.
1997-1999	Research Associate, PAOS/LASP, University of Colorado at Boulder.
1996-1997	Research Scientist, Bay Area Environmental Research Institute, and NASA/Ames Research Center, Moffett Field, CA.
1993-1996	Research Associate, NASA/Ames Research Center, Moffett Field, CA
1991-1993	Visiting Scientist, CIRES, University of Colorado at Boulder.
1992-1993	Senior Scientist, Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow.
1989-1992	Research Scientist, Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow.
1984-1989	Junior Research Scientist, Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow.

CURRENT FIELD OF INTEREST:

Radiative transfer in the atmosphere and remote sensing; dynamics and properties of atmospheric aerosols and clouds and their effects on the environment, air quality, atmospheric chemistry and climate; atmospheric dynamics and aerosol transport at the regional scale; aerosol-land-atmosphere interactions; integration of ground-based and satellite data with regional transport models

HONORS, AWARDS AND RECOGNITIONS:

- 2009 *Certificate of Appreciation* for valuable contributions that have helped make IPY2007-2008 a success and an enduring example of international collaboration. World Meteorological Organization and International Council for Science.
- 2008 *Certificate of Appreciation* in recognition of valuable contribution and outstanding support to the Instrument Incubator Program (IIP) and the NASA Earth Science Technology Office.
- 2008, 2009 *Thank A Teacher Certificates* for excellence in teaching, CETL Georgia Institute of Technology, Atlanta.
- 2008 Outstanding Faculty Leadership for the Development of Graduate Research Assistants Award, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta.
- 1991 - 1992 Visiting Scientist Fellowship, CIRES, University of Colorado at Boulder.
- 1993 - 1996 Research Associateship, National Research Council/NASA Ames Research Center.

TEACHING EXPERIENCE:

- Fall08: EAS6145 Remote sensing of the atmosphere and oceans (20 students)
- Spring08: EAS 8803 Aerosol and Precipitation (7 students)
- Fall07: EAS 8803 Atmospheric radiative transfer (11 students)
- Spring07: EAS6145 Remote sensing of the atmosphere and oceans (11 students)
- Spring06: EAS8802 Clouds, aerosols and climate (13 students)
- Fall05: EAS8803 Atmospheric radiative transfer (8 students)
- Spring05: EAS8803 Remote sensing of the atmosphere and oceans (8 students)
- Spring04: EAS8803 Remote sensing of the atmosphere and oceans (7 students)
- Spring04: ATOC6020 Modeling and measurements of atmospheric aerosols (10 students)
- Fall03: ATOC6020 Modeling and measurements of atmospheric aerosols (6 students)
- Spring03: ATOC5235 Remote sensing of the atmosphere and oceans (24 students)
- Spring03: ATOC6020 Modeling and measurements of atmospheric aerosols (5 students)
- Fall02: ATOC5560 Introduction to radiative transfer processes (16 students)
- Fall02: ATOC6020 Modeling and measurements of atmospheric aerosols (4 students)
- Spring 02: ATOC5235 Remote sensing of the atmosphere and oceans (18 students)
- Spring 02: ATOC6020 Modeling and measurements of atmospheric aerosols (4 students)
- Fall01: ATOC6020 Modeling and measurements of atmospheric aerosols (4 students)
- Fall00: ATOC/ASTR5560 Radiative transfer processes in planetary atmospheres (9 students)

PEER REVIEWED PUBLICATIONS (underscore indicates Sokolik students or post docs):

Alston, E., and I.N. Sokolik, Using multi-satellite data to assess the impacts of biomass burning on air quality in Atlanta, GA during May 2007, *Atmospheric Environment (submitted)*.

Waggoner, D., and I.N. Sokolik, Seasonal dynamics and regional features of MODIS-derived land surface characteristics in dust source regions of East Asia, *Remote Sensing of Environment (submitted)*.

Sokolik, I.N., J. A. Curry, and V. Radionov, Interactions of Arctic aerosols with land-cover and land-use changes in Northern Eurasia and their role in the Arctic climate system. In *Arctic land-cover and land-use in a changing climate: Focus on Eurasia*, G.Gutman and A. Reissell (Eds.), Springer, (in press).

Darmenoy, A., and I.N. Sokolik, Spatial variability of satellite visible radiances in dust and dust-cloud mixed conditions: implications for dust detection. *Geophys. Res. Lett.*, doi:10.1029/2009GL038383, 2009.

Darmenova, K., I.N. Sokolik , Y. Shao, B. Marticorena, and G. Bergametti, Development of a physically-based dust emission module within the Weather Research and Forecasting (WRF) model: Assessment of dust emission parameterizations and input parameters for source regions in Central and East Asia. *J. Geophys. Res.*, doi:10.1029/2008JD011236, 2009.

Groisman, P.Ya., E. A. Clark, V. M. Kattsov, D. P. Lettenmaier, I.N. Sokolik, et al., The Northern Eurasia Earth Science Partnership: An example of science applied to societal needs. *Bulletin of American Meteorological Society*, 5, 671-688, 2009.

Kumar, P., I.N. Sokolik, and A. Nenes, Parameterization of cloud droplet formation for global and regional models: including adsorption activation from insoluble CCN, *Atmos. Chem. Phys.*, 9, 2517-2532, 2009.

Sokolik I.N., Global radiation balance. In *Encyclopedia of Ecology*, E. Jorgensen (Ed.), Elsevier, 2008.

Sokolik, I.N., and J. A. Curry, Impact of aerosols on the hydrological cycle in the Arctic. *GEWEX News*, v. 17, 11-12, 2007.

Groisman, P.Ya., I.N. Sokolik, G. Brasseur, K. Hibbard, and J. Katzenberger, Northern Eurasia land surface properties and change and its role in the Global Earth System. *EOS*, 88, 46, 2007.

Yang P., Q. Feng Q., G. Hong, G.W. Kattawar, W.J. Wiscombe, M.I. Mishchenko, O. Dubovik, I. Laszlo, and I.N. Sokolik, Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. *J. of Aerosol Science*, 38, 995-1014, 2007.

Jeong, G., and I.N. Sokolik, The effect of mineral dust aerosols on photolysis rates in clean and polluted marine environments. *J. Geophys. Res.*, 112, D21308, doi:10.1029/2007JD008442, 2007.

Boer, G.J., I.N. Sokolik, and S.T. Martin, Infrared optical constants of aqueous sulfate-nitrate-ammonium multi-component tropospheric aerosols from attenuated total reflectance measurements: Part I. Results and Analysis of Spectral Absorbing Features. *J. Quant. Spectrosc. Radiat. Transfer*, doi:10.1016/j.jqsrt.2007.02.017, 2007.

Boer, G.J., I.N. Sokolik, and S.T. Martin, Infrared optical constants of aqueous sulfate-nitrate-ammonium multi-component tropospheric aerosols from attenuated total reflectance measurements: Part II. An examination of mixing rules. *J. Quant. Spectrosc. Radiat. Transfer*, doi:10.1016/j.jqsrt.2007.02.018, 2007.

Kampe, T. U., and I.N. Sokolik, Remote sensing retrievals of fine mode aerosol optical depth and impacts on its correlation with CO from biomass burning. *Geophys. Res. Lett.*, L12806, doi:10.1029/2007GL029805, 2007.

Groisman, P.Ya., H.H. Shugart, and I.N. Sokolik, Preface to Special Issue on Northern Eurasia Regional Climate and Environmental Change, *Global and Planetary Change*, 56, i-iv, 2007.

Darmenova K., and I.N. Sokolik, Assessing uncertainties in dust emission in the Aral Sea region caused by meteorological fields predicted with a mesoscale model, *Global and Planetary Change*, 56, 297-310, 2007.

Kim, S., L.G. Huey, R.E. Stickel, D.J. Tanner, J. H. Crawford, J.R. Olson, G. Chen, W. H. Brune, X. Ren, R. Leshner, P. J. Wooldridge, T. H. Bertram, A. Perring, R.C. Cohen, B., B. Lefer, R. E. Shetter, M. Avery, G. Diskin, and I.N. Sokolik, Measurement of HO₂NO₂ in the upper troposphere during INTEX-NA 2004, *J. Geophys. Res.*, D01102, doi:10.1029/2005JD007008, 2007.

Lafon S., I.N. Sokolik, J.L. Rajot, S. Caquineau, and A. Gaudichet, Characterization of iron oxides: implications to light absorption by mineral dust aerosols. *J. Geophys. Res.*, 111, D21207, doi:10.1029/2005JD007016, 2006.

Arimoto R., Y. J. Kim, Y. P. Kim, P. K. Quinn, T. S. Bates, T. Anderson, S. Gong, I. Uno, M. Chin, B. J. Huebert, A. D. Clarke, Y. Shinzuka, R. Weber, J. Anderson, S. A. Guazzotti, R. C. Sullivan, D. A. Sodeman, K. A. Prather, and I. N. Sokolik, Characterization of Asian Dust during ACE-Asia, *Global and Planetary Change*, 52, 23-56, 2006.

Hong, G., P. Yang, H.L. Huang, S. Ackerman, and I.N. Sokolik, Simulation of high-spectral-resolution infrared signature of overlapping cirrus clouds and mineral dust, *Geophys. Res. Lett.*, 33, L04805, doi:10.1029/2005GL024381, 2006.

Darmenoy, A., and I.N. Sokolik, Identifying the regional thermal-IR radiative signature of mineral dust with MODIS, *Geophys. Res. Lett.*, 32, L16803, doi:10.1029/2005GL023092, 2005. Miecznik G., R. Illing, S. Petroy, and I.N. Sokolik, Retrievals of aerosol properties from multi-angular and multi-spectral polarized radiances: Sensitivity study. *Applied Optics*, 44, 4186-4204, 2005.

Darmenova, K., I.N. Sokolik, and A. Darmenoy, Characterization of East Asian dust outbreaks in Spring of 2001 using ground-based and satellite data. *J. Geophys. Res.*, doi:10.1029/2004JD004842, 2005.

Kalashnikova, O., R. Kahn, I.N. Sokolik, W.-H. Li, The ability of multi-angle remote sensing observations to identify and distinguish mineral dust types: Part 1. Optical models and retrievals of optically thick plumes. *J. Geophys. Res.*, 110, D18S14, doi:10.1029/2004JD004550, 2005.

Xuan, J., I.N. Sokolik, J. Hao, F. Guo, H. Mao, and G. Yang, Identification and characterization of sources of atmospheric mineral dust in east Asia. *Atmos. Envir.*, 38, 6239-6252, 2004.

Kalashnikova, O., and I.N. Sokolik, Modeling optical properties of nonspherical soil-derived dust aggregates. *J. Quant. Spectrosc. Radiative Transfer*, 87, 137-166, 2004.

Sokolik I.N, Dust, in Holton, J.P., J.A. Curry, and J. Doyle, (Eds.), *Encyclopedia of Atmospheric Sciences*. Academic Press, London, pp.668-672, 2003.

Sokolik I.N (contributing author) Chapter 4. Tropospheric aerosols, in G.P. Brasseur, R.G. Prinn, A. P. Pszenny (Eds.), *Atmospheric chemistry in a changing world*. Springer, pp.125-155, 2003.

Xuan, J., and I.N. Sokolik, Characterization of sources and emission rates of mineral dust in Northern China. *Atmos. Envir.* 36, 4863-4876, 2002.

Kalashnikova, O., and I.N. Sokolik, Importance of shapes and composition of wind-blown dust particles for remote sensing at solar wavelengths. *Geophys. Res. Let.*, **29**, No.10, 10.1029/2002GL014947, 2002.

Sokolik, I.N., The spectral radiative signature of wind-blown mineral dust: Implications for remote sensing in the thermal IR region. *Geophys. Res. Let.*, 10.10292002GL105910, 2002.

Sokolik I.N., Dust, in *Encyclopedia of Global Environmental Change*. John Wiley&Sons Ltd, 2001.

Sokolik I.N., D. Winker, G. Bergametti, D. Gillette, G. Carmichael, Y. Kaufman, L. Gomes, L. Schuetz, and J. Penner. Introduction to special section on mineral dust: outstanding problems in quantifying the radiative impact of mineral dust, *J. Geophys. Res.*, 106, 18,015-18,028, 2001.

Quijano, A. L., I. N. Sokolik, and O.B. Toon. Radiative heating rates and direct radiative forcing by mineral dust in cloudy atmospheric conditions. *J. Geophys. Res.*, 105, 12,207-12,219, 2000.

Quijano, A.L., I.N. Sokolik, and O.B. Toon, Influence of the aerosol vertical distribution on the retrievals of aerosol optical depth from satellite radiance measurements. *Geophys. Res. Let.*, 27, 3457-3460, 2000.

Sokolik I.N. and O.B. Toon. Incorporation of mineralogical composition into models of the radiative properties of mineral aerosol from UV to IR wavelengths. *J. Geophys. Res.*, 104, 9423-9444, 1999.

Sokolik, I.N., Nuts and bolts of radiative forcing by mineral dust. *IGACTivities Newsletter*, Issue 17, 12-14, May 1999.

Sokolik, I.N., Challenges add up in quantifying radiative impact of mineral dust. *Eos*, 80, p.578, 1999.

Sokolik, I.N. and O.B. Toon. Modeling the radiative properties of mineral aerosols for climate studies and remote sensing applications. *J. Aerosol Sci.* 29, Suppl. 1, S1199-S1200, 1998.

Sokolik, I.N., O.B. Toon, and R.W. Bergstrom. Modeling the radiative characteristics of airborne mineral aerosols at infrared wavelengths. *J. Geophys. Res.* 103, 8813-8826, 1998.

Sokolik, I.N. and O.B. Toon. Regional direct radiative forcing by the airborne mineral aerosols. *J. Aerosol Sci.* 28, Suppl. 1, S655-S657, 1997.

Sokolik, I.N., F.P.J. Valero, and P. Pilewskie. Spatial and temporal variations of the radiative characteristics of the plume from the Kuwait oil fires. In "Biomass burning and global climate change", Levine J.S., Ed., MIT Press: Cambridge, MA, pp. 889-893, 1996.

Sokolik, I.N. and O.B. Toon. Direct radiative forcing by anthropogenic airborne mineral aerosols. *Nature* 381, 681- 683, 1996.

Sokolik, I.N. and O.B. Toon. Direct radiative forcing by airborne mineral dust. *J. Aerosol Sci.* 27, Supplement 1, S11, 1996.

Sokolik, I.N. and Golitsyn G.S. Investigation of optical and radiative properties of atmospheric dust aerosols. *Atmos. Envir.* 16, 2509-2517, 1993.

Panchenko, M.V., Terpugova S.A., Bodhaine B.A., Isakov A.A., Sviridenkov M.A., Sokolik I.N., Romashova E.V., Nazarov B.I., Shukurov A.K., Chistyakova and Jonhson T.C. Optical investigation of dust storms during U.S.S.R.-U.S. experiments in Tadzhikistan, 1989. *Atmos. Envir.* 16, 2503-2508, 1993.

Sviridenkov M.A., Gillette D.A., Isakov A.A., Sokolik I.N., Smirnov V.V., Belan B.D., Panchenko M.V., Andronova A.V., Kolomiets S.M., Zhukov V.M., and Zhukovsky D.A. Size distribution of dust aerosol measured during the Soviet-American experiment in Tadzhikistan, 1989. *Atmos. Envir.* 16, 2518-2523, 1993.

Sokolik I.N., Andronova A.V., and Jonhson T.C. Complex refractive index of atmospheric dust aerosols. *Atmos. Envir.* 16, 2495-2502, 1993.

Sokolik I.N. Microphysical, optical and radiative properties of arctic aerosols. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 7, 675-688, 1992.

Sokolik I.N. and G.S. Golitsyn. Optical and radiative properties of dust aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 787-797, 1992.

Andronova A.V., Belan B.D., Gillette D.A., Isakov A.A., Zhukov V.M., Zhukovsky D.A., Kolomiets S.M., Panchenko M.A., Sviridenkov M.A., Sokolik I.N., Microphysical characteristics of the dust aerosol by the results of the Soviet-American experiment. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 798-804, 1992.

Isakov A.A., Nazarov B.I., Panchenko M.V., Pirogov S.M., Romashova E.V., Sviridenkov M.A., Sokolik I.N., Terpugova S.A., Fedorova E.K., Chistyakova E.I. and A.K. Shukurov, Optical properties of dust plumes. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 805-812, 1992.

Pirogov S.M., Romashova E.V. and I.N. Sokolik, Measurements of optical and radiative characteristics of dust aerosol. In : *Joint Soviet-American experiment on arid aerosol: Tadzhikiztan, USSR, September 1989*, Ed. Golitsyn G.S., Hydrometeoizdat, Leningrad, 21-26, 1992.

Andronova A.V. and I.N. Sokolik, Optical constants of atmospheric dust aerosols. In : *Joint Soviet-American experiment on arid aerosol: Tadzhikiztan, USSR, September 1989*. Ed. Golitsyn G.S., Hydrometeoizdat, Leningrad, 45-52, 1992 .

Sokolik I.N. Parameterization of the optical characteristics of a polydispersed aerosol system. *Atmos. Optics* 2, 472-476, 1989.

Ginzburg A.S. and I.N. Sokolik, Transmission and reflection of light by a uniform layer of absorbing aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics* v.25, 9, 700-704, 1989.

Sokolik I.N. Investigation of optical and radiative-climatic effects of absorbing aerosols. Ph.D. thesis, Ins. of Atmos. Physics, USSR Acad.Sci., Moscow, 116 p., 1989.

Sokolik I.N. Investigation and parameterization of optical characteristics of polydispersive absorbing aerosols. Publications of the Ins. of Atmos. Physics, USSR Acad.Sci., Moscow, 46 p., 1989.

Sokolik I.N. Interpretation of the measurements of optical characteristics of smoke aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics* 24, 200-204, 1988.

Sokolik I. N., Tarasova T.A., and Feigelson E.M. Optical characteristics of smoked atmosphere and radiative heating. *Meteorologya and Gidrologiya*, 11, 53-61, 1986.

MEETINGS AND SYMPOSIA (underscore indicates Sokolik students or post docs):

Invited:

Sokolik, I.N., Progress and challenges in dust radiative modeling for passive/active remote sensing and climate models. Third International Dust Workshop, Leipzig, Germany, September, 2008.

Sokolik, I.N., A. Darmenov, K. Darmenova, Characterization of atmospheric mineral dust with remote sensing and the regional transport model WRF-DuMo. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Sokolik, I.N., Atmospheric aerosols in high altitudes. NEESPI Regional Science Team Meeting devoted to the High Latitudes/ iLEAPS , Helsinki, Finland, 2-6 June, 2008.

Sokolik, I.N., Overview of radiation and arctic aerosol interactions with LCLUC. NASA LCLUC Science Team meeting, 28 April – May2, Adelphi, MD, 2008.

Sokolik, I.N., Aerosols and land interactions. NASA LCLUC Science Team meeting, 4-6 April, Adelphi, MD, 2007.

Sokolik, I.N., Atmospheric Aerosols and Air Pollution, Northern Eurasia Earth Partnership Initiative Summit, 3-4 May, Helsinki, Finland, 2007.

Sokolik, I.N., Impacts of atmospheric aerosols and air pollution in Northern Eurasia and their dynamics, Aspen Climate Change Institute, 12-16 August 2007, Aspen, CO, 2007.

Sokolik, I.N., Remaining and emerging challenges in measuring and modeling mineral dust aerosol, EUFAR Experts Workshop, 13- 15 September, Paris, 2006.

Sokolik, I.N., Towards developing improved treatments of mineral dust aerosol for climate and remote sensing studies, Global Warming and the Next Ice Age and Aerosol Workshop, 17- 21 July, Santa Fe, 2006.

Sokolik, I.N., Climatic impacts of aerosols in Northern Eurasia, Institute of Geography/ NEESPI, 7-8 November, Beijing, China, 2006.

Sokolik, I.N., Impact of atmospheric mineral dust on the surface energy balance and PAR in the NEESPI study domain. AGU, Fall Meeting, 2006.

Sokolik, I.N., Aerosol impacts on climate of Northern Eurasia, IGBP/NEESPI Workshop, San Francisco, CA, 5-7 Dec., 2005.

Sokolik, I.N., Radiative forcing by dust and black carbon, The Aspen Global Change Institute, Experts meeting on Aerosols and the Hydrological Cycle, Aspen, CO, July, 2004.

Sokolik, I.N., Nuts and bolts of radiative forcing by mineral dust. NOAA/CMDL, Boulder, 2 May 2003.

Sokolik, I.N., Recent advances and remaining challenges in predicting radiative properties of mineral dust, Second International Workshop on Mineral Dust, September 10-12, Paris, France, 2003.

Sokolik, I.N., Dust effects: An Overview. International Workshop on Validation Data Sets for Modeling Mineral Aerosols in Global Climate Cycles. Max-Planck-Institute for Biogeochemistry, Jena, Germany, May 1-5, 2002.

Sokolik, I.N., Radiative impacts of Asian dust. Sixth International Aerosol Conference. Taipei, Taiwan, September 8-13, 2002.

Sokolik, I.N., Remote sensing of mineral dust aerosols in the UV/visible and IR regions. SPIE 3th International Asia-Pacific Environmental Remote Sensing Symposium, October 23-27, China, 2002.

Sokolik, I.N., Improving dust optical models to adequately predict diverse dust radiative impacts. Dust Symposium, IAMAS, Austria, 2001.

Sokolik, I.N., Capability of IR hyperspectral remote sensing in detecting wind-blown mineral dust. First MURI Workshop, University of Wisconsin, 30-31 August, 2001.

Sokolik, I.N., Radiative forcing of mineral dust. NOAA/CMDL, Boulder, Aug.17, 2000.

Sokolik, I.N., Modeling the evolution of tropospheric aerosols for remote sensing applications and climate studies. Presentation at the Department of Atmospheric and Oceanic Sciences, University of Wisconsin - Madison, July, 1999.

Sokolik, I.N., Mineral aerosol: evolution and impact. ACE-Asia Science Team Meeting, Kunming, China, November 1999.

Sokolik, I.N., Modeling the radiative properties of Asian multicomponent aerosols. ACE-Asia science team meeting. Cheju Island, Korea, 10-12 Nov., 1998.

Sokolik, I.N., Radiative forcing by atmospheric aerosols. LASP, University of Colorado at Boulder, May 1, 1997.

Sokolik, I.N., Radiative forcing by airborne mineral aerosol. Aerosol Workshop, GISS, New York, June 3, 1997.

Sokolik, I.N., Radiative properties of atmospheric aerosols: modeling and measurements. ACE-3 Science Team Meeting. Nagoya, Japan, Nov. 15, 1997.

Sokolik, I.N., Radiative properties of Arctic aerosols. NASA/Ames Research Center, Moffett Field, April, 1995.

Sokolik, I.N., Review on Arctic aerosol studies. US-Russia Working Team meeting on Arctic Study, Cherskiy, Russia, April, 1994.

Sokolik, I.N., Major results of a Joint Soviet-American experiment to study dust physical and chemical properties. Working Group VIII under US-USSR Agreement on the Protection of the Environment, Asheville, October, 1993.

Sokolik, I.N., Optical properties of major types of smoke aerosols. Department of Atmospheric Sciences, University of Washington, Seattle, May, 1992.

Sokolik, I.N., Retrieval of optical characteristics of atmospheric aerosols. NASA/Ames Research Center, Moffett Field, September, 1992.

Contributed:

Sokolik, I.N., H. Choi, A. Darmenov, and D. M. Winker, Using CALIPSO space lidar data in conjunction with A-Train observations and a regional transport model WRF-DuMo to characterize spatiotemporal distribution of dust and related direct and indirect forcing. *CloudSat/CALIPSO Science Team Meeting*, July 28-31, Madison, WI, 2009.

Sokolik, I.N., K. Darmenova, A. Darmenov, X. Xi, Y. Shao, B. Marticorena, and G. Bergametti, Understanding the impact of changes in land-use/land-cover and atmospheric dust loading and their coupling upon climate change in the NEESPI study domain drylands. EGU Assembly, Vienna, 19-24, April, 2009.

Kurosaki, Y., M. Mikami, M. Shinoda, and I.N. Sokolik, Statistical estimation of a threshold wind speed for dust emission from surface synoptic data in East Asia. EGU Assembly, Vienna, 19-24, April, 2009.

Sokolik, I.N., A. Darmenov, H. Choi, Y. Kurosaki, and V. N. Razuvaev, Development of the Asian Dust Databank to support studies of interactions between atmospheric dust aerosol, land - use and climate in Central and East Asia. EGU Assembly, Vienna, 19-24, April, 2009.

Sokolik, I.N., H. Choi, A. Darmenov, and A. Karabanov, Characterization of Arctic aerosol and its climate forcing with A-Train satellite constellation observations. EOS Trans. AGU, 89(53),

Fall Meet. Suppl. 2008.

Lu, Z., I.N. Sokolik, V.V. Tatarskii, J.C. Curry, and H. Morrison, Impact of model physics on estimating aerosol-related changes in cloud and precipitation in the Arctic. EOS Trans. AGU, 89(53), Fall Meet. Suppl. 2008.

Maksutov, S., T.Ohara, T.Oda, S. Oshchepkov, and I.N. Sokolik, Estimation of the anthropogenic CO₂ and CH₄ emissions from the spatial concentration distribution around large point sources. Workshop on the Data Utilization of Greenhouse gases Observing SATellite (GOSAT) "IBUKI", Tokyo, Japan, 5-7 November, 2008.

Kumar, P., I.N. Sokolik, and A. Nenes, Parameterization of cloud droplet formation for large-scale models: Including the effects of hydrophilic insoluble particles. AAAR 27th Annual Conference, Orlando, FL, October 20-24, 2008.

Darmenova, K., and I.N. Sokolik, Dust emission and deposition in regional models, Third International Dust Workshop, Leipzig, Germany, September, 2008.

Darmenov, A., I.N. Sokolik, K. Darmenova, H.-J. Choi, Characterization of three dimensional spatiotemporal distribution of Asian dust by merging observations and predictions from the regional dust modeling system WRF-DuMo, Third International Dust Workshop, Leipzig, Germany, September, 2008.

Kalashnikova, O., I.N. Sokolik, G. Boer, and M. Garay, The IR radiative signature of African dust and its evolution during Trans-Atlantic transport determined from collocated AIRS, MODIS and CALIPSO observations. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Choi, H., I.N. Sokolik, D. M. Winker, and Y. Kurosaki, Analysis of Asian dust events from CALIPSO space lidar data in conjunction with passive remote sensing and ground-based observations. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Alston, E.J., and I.N. Sokolik, Characterizing urban aerosols through remote sensing technologies – A case study in air quality in Georgia. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Waggoner, D., and I.N. Sokolik, Comparative characterization of the land surface properties and albedo relationship of active dust sources in East Asia and Northern Africa using MODIS data. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Prados, A., G. Leptoukh, E. Alston, and I. N. Sokolik, Assessing U.S Air Quality Using CALIPSO and MODIS Data via Giovanni. EOS Trans. AGU, Fall Meeting, Suppl.2007.

Kurosaki, Y., I.N. Sokolik, and V. N. Razuvaev, Analyses of ground-based and satellite observations for developing a dust climatology in Central and East Asia. EOS Trans. AGU, Fall Meeting, Suppl.2007.

Darmenova, K., and I.N. Sokolik, Investigating linkages between the dynamics of dust events and synoptic and land surface conditions with a Regional Dust Modeling System WRF-DuMo in Central and East Asia under the NEESPI Initiative. EOS Trans. AGU, Fall Meeting, Suppl.2007.

Choi, H., I.N. Sokolik, and D. M. Winker, Using CALIPSO space lidar data in conjunction with passive remote sensing for characterization of spatiotemporal distribution of Asian dust outbreaks and their radiative impact. EOS Trans. AGU, Fall Meeting, Suppl.2007.

Sokolik, I.N., A. Darmenoy, K. Darmenova, and Y. Kurosaki, Regional specifics of mineral dust impacts on the energy balance and clouds/precipitation. Aerosols, Clouds, Precipitation and Climate Initiative (ACPC), iLEAPS-IGAC-GEWEX Specialist Workshop, 8-10 Oct., Boulder, CO, 2007.

Sokolik, I.N., R. Dickinson, and Y. Dai, Impact of atmospheric mineral dust on the surface energy balance and PAR in the NEESPI study domain. EOS Trans. AGU, Fall Meeting, Suppl.2006.

Jeong, G-R., and I.N. Sokolik, The Effect of Size-resolved Mineralogical Composition on the Heterogeneous Chemistry on Dust Particle Surfaces. EOS Trans. AGU, Fall Meeting, Suppl.2006.

Kurosaki, Y., I.N. Sokolik, A. Darmenoy, V. N. Razuvaev, D. Jugder, and G. S. Golitsyn, Reconstruction of a 50-year climatology of dust storms in Central and East Asia from ground-based and satellite observations. EOS Trans. AGU, Fall Meeting, Suppl.2006.

Darmenova, K., I.N. Sokolik, Y. Shao, G. Bergametti, B. Marticorena, and I. Uno, Development of a regional dust modeling system for Central and East Asia under the NEESPI initiative. EOS Trans. AGU, Fall Meeting, Suppl.2006.

Dickinson, R., L. Zhou, and I.N. Sokolik, Application of a PC analysis of remote sensing spectral reflectance data to determine source regions for dust storms. EOS Trans. AGU, Fall Meeting, Suppl.2006.

Sokolik, I.N., Studying the dust storm with satellites. ESSP, 9-12 November, Beijing, China, 2006.

Sokolik I.N., K. Darmenova, Y. Kurosaki, R. Dickinson, Y. Dai, and G. Golitsyn, Understanding the role of changes in land use/land cover and atmospheric dust loading and their coupling on climate change in the NEESPI study domain drylands, NASA LCLUC Science Team Meeting, 10-12 October, College Park, Maryland, 2006.

Karpowicz, B., and I.N. Sokolik, Modeling and ground-based observations of light absorbing aerosols and their effect on the degree of linear polarization. 12th Conference on Atmospheric Radiation, 10-14 July, Wisconsin, 2006.

Darmenoy, A., and I.N. Sokolik, Probabilistic dust-cloud mask as a discrimination tool and a data confidence level indicator. 12th Conference on Atmospheric Radiation, 10-14 July, Wisconsin, 2006.

Sokolik, I.N., and S. Lafon, Recent advances in modeling of interactions of atmospheric radiation with mineral dust. 12th Conference on Atmospheric Radiation, 10-14 July, Wisconsin, 2006.

Sokolik, I.N., Remote sensing of atmospheric mineral dust: Recent advances and remaining challenges. ISPRS Workshop on Remote Sensing of Aerosols, 4-5 May, Berlin, Germany, 2006.

Sokolik, I.N., Overview of aerosol impacts on climate and NEESPI science goals. 1th NEESPI Science Team Meeting, 22-24 Feb., IASA, Austria, 2006.

Karpowicz, B., I.N. Sokolik , R. J. Greenwald, R. Peltier, R. J. Weber, and M. H. Bergin, Photopolarimetric measurements in the Atlanta Metropolitan Area, and their potential for improving characterization of absorbing aerosols. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Waggoner, D.G., and I. N. Sokolik, Characterization of land surface properties of active dust sources using MODIS and MISR data. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Jeong, J.R., and I. N. Sokolik, The effects of the size-resolved mineralogical composition of dust particles on the tropospheric photochemistry. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Kampe, T.U., and I. N. Sokolik, Analysis of spatial and temporal variability of carbon monoxide and carbonaceous aerosols using space-borne measurements: Implications for data assimilation with chemical transport models. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Lafon, S., and I. N. Sokolik, Effect of iron oxides on radiative properties of mineral dust. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Darmenova, K., and I.N. Sokolik, Impact of land-use and land-cover changes on mineral dust emission in Central and East Asia. 86th AMS Annual Meeting, 29 Jan.-2 Feb., Atlanta, GA, 2006.

Sokolik, I.N., Emerging challenges in studies of dust impacts on the climate system, 4th ADEC Workshop (Aeolian Dust Experiment on Climate Impact), January 26-28, Nagasaki, Japan, 2005.

Karpowicz, B., and I.N. Sokolik, Exploring the potential of polarimetric measurements in studies of light absorbing urban aerosols. EOS Trans. AGU, Fall Meeting, Suppl.2005.

Darmenov, A., and I.N. Sokolik, Discrimination of mineral aerosols from clouds with passive multi-channel space-borne sensors. EOS Trans. AGU, Fall Meeting, Suppl.2005.

Lafon, S., I.N. Sokolik, A.Darmenov, Legrand, M., Rajot, J. L., and Gaudichet, A., Sensitivity of IR radiative properties of dust aerosols to their mineralogical composition: implications for IR remote sensing. EOS Trans. AGU, Fall Meeting, Suppl.2005.

Sokolik, I.N., V.V. Tatarskii, V. Razuvaev, R. Knight, and J. Enloe, Elucidating the linkage between changes in land use, atmospheric mineral dust loading, and precipitation in Central Asia during the past 50-years. EOS Trans. AGU, Fall Meeting, Suppl. 2004.

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Darmenova, K., and I.N. Sokolik, Land use changes and mineral dust emission in Central and East Asia: the role of model's spatial resolution. EOS Trans. AGU, Fall Meeting, Suppl. 2004.

Karpowicz, B., and I.N. Sokolik, Retrieval of the single scattering albedo of atmospheric aerosols using ground-based polarimetric measurements. 23th Annual Conference of American Association for Aerosol Research, Atlanta, GA, 2004.

Kampe, T.U. and I. N. Sokolik, Implications of spatial and temporal sampling on CO and aerosol fields retrieved from satellite-borne sensors. EOS Trans. AGU, Spring Meeting, Suppl. 2004.

Darmenova, K., and I.N. Sokolik, Constraining dust sources in Central and East Asia with satellite and ground-based observations. EOS Trans. AGU, Spring Meeting, Suppl. 2004.

Darmenoy, A., and I.N. Sokolik, Testing MODIS dust detection capabilities over the ocean using visible and IR channels. EOS Trans. AGU, Spring Meeting, Suppl. 2004.

Miecznik, G., R. Illing, S. Petroy, and I.N. Sokolik, Retrievals of aerosol properties from multi-angular and multi-spectral polarized radiances: Sensitivity study. IGARSS, IEEE International Geoscience and Remote Sensing Symposium, July 21-25, Toulouse, France, 2003.

Boer, G. and I.N. Sokolik, Developing the high spectral resolution aerosol models for remote sensing in the thermal IR, IGARSS, IEEE International Geoscience and Remote Sensing Symposium, July 21-25, Toulouse, France, 2003.

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Darmenova, K., and I.N. Sokolik, Integrated analysis of satellite and ground-based meteorological observations of Asian dust outbreaks in Spring of 2001. 2th International Workshop on Mineral Dust, September 10-12, Paris, France, 2003.

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Kalashnikova, O., R. Kahn, and I.N. Sokolik, Retrieving mineral dust composition, size and shape (CSS) properties from multi-angle remote sensing observations. EOS Trans. AGU, Fall Meeting, Suppl. 2003.

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Kalashnikova, O., and I.N. Sokolik, Modeling optical properties of nonspherical mineral dust particles for remote sensing at solar wavelengths. AMS Conference on Atmospheric Radiation, Utah, June 3-7, 2002.

Pougatchev, N.S., Sokolik, I.N., W.L. Smith, and D. Zhou, Atmospheric trace gases and aerosol remote sensing by nadir viewing thermal emission Fourier transform spectrometer. AMS Conference on Atmospheric Radiation, Utah, June 3-7, 2002.

Sokolik, I.N., N.S. Pougatchev, W.L. Smith, and D. Zhou, Identifying the spectral radiative signature of mineral dust: implications for remote sensing in the IR region. AMS Conference on Atmospheric Radiation, Utah, June 3-7, 2002.

Xuan, J., and I.N. Sokolik, Sources of wind-blown dust in Northern China: Towards developing an Asian dust databank. Fifth International Conference on Aeolian Research and the Global Change and Terrestrial Ecosystems-Soil Erosion Network (Wind), Lubbock, Texas, July 22-25, 2002.

Sokolik, I.N., Radiative impacts of Asian dust. Sixth International Aerosol Conference. Taipei, Taiwan, September 8-13, 2002.

Murayama, T., N. Sugimoto, A. Shimizu, H. Fukushima, M. Toratani, H. Kobayashi, I. Uno, N. Kagawa, S.-C. Yoon, S.-W. Kim, T. Shibata, E.J. Welton, and I.N. Sokolik, Lidar network observation of Asian dust events during the Ace-Asia intensive observation period. Sixth International Aerosol Conference. Taipei, Taiwan, September 8-13, 2002.

Sokolik, I.N., Remote sensing of mineral dust aerosols in the UV/visible and IR regions. SPIE 3th International Asia-Pacific Environmental Remote Sensing Symposium, October 23-27, China, 2002.

Xuan, J., and I.N. Sokolik, Environmental and geochemical characterization of dust sources in China: Towards developing the Asian Dust Databank. EOS Trans. AGU, Fall Meeting, Suppl. 2002.

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Quijano, A.L., I. N. Sokolik, B. A. Bodhaine, E. G. Dutton, J. A. Ogren and B. Huebert. Determination of an Asian dust radiative signature over the North Pacific Ocean and Hawaii from surface and satellite observations in UV and visible wavelengths. Millennium Atmospheric Chemistry Symposium, New Mexico, 2001.

Kalashnikova, O., I.N. Sokolik, and J. Anderson. Characterization of the optical properties of irregular mineral dust aggregates combining individual particle analysis and modeling. Millennium Atmospheric Chemistry Symposium, New Mexico, 2001.

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Pougachev, N.S., W.L. Smith, F.W. Harrison, A.M. Larar, C.P. Rinsland, D.J. Jacob, I. Bey, B.D. Field, R.M. Yantosca, A. Kuang, S.R. Nolf, S.V. Kireev, I.N. Sokolik, and P. Kasibhalta. Tropospheric chemistry study from geosynchronous orbit-GIFTS-IOMI mission. SPIE's 46th Annual Meeting, San Diego, 2001.

Sokolik, I.N., J. Xuan, and O. Kalashnikova, Seasonal variations of the direct radiative forcing of Asian dust. Annual Conference of American Association for Aerosol Research, Oregon, October 15-19, 2001.

Xuan, J., and I.N. Sokolik, Chinese sources of yellow sand. 7th International Joint Seminar on the Regional Deposition Processes in the Atmosphere, Tsukuba, Japan, Nov. 20-23, 2001.

Kalashnikova, O., and I.N. Sokolik, Modeling optical properties of irregular dust aggregates using the discrete dipole approximation. 5th Conference on Light Scattering by Nonspherical Particles, Halifax, Canada, 2000.

Sokolik, I.N., What we need to know about dust properties to adequately predict dust radiative impact. Proceedings of the Workshop on Mineral Dust, Boulder, June 9-11, pp.56-57, 1999.

Sokolik, I.N. and O.B. Toon, How the evolution of the chemical and physical properties of mineral dust may affect its radiative impact. In Proceedings of the Sixth IGAC Scientific Conference, Bologna, Italy, Sep. 13-17, 1999.

Sokolik I.N. and O.B. Toon. Processes resulting in the formation of multicomponent tropospheric aerosols containing dust. EOS Trans. AGU, Fall Meeting, Suppl. 1999.

Colarco, P., I. N. Sokolik, and O. B. Toon. Modeling Saharan dust transport and optical properties. EOS Trans. AGU, Spring Meeting, Suppl. 1998.

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Sokolik, I.N. and O.B. Toon. Modeling the radiative properties of airborne mineral aerosols. Proceedings from the IGAC Symposium, Nagoya, Japan, November 11-13, 1997.

Quijano, A.L., I. N. Sokolik, and O. B. Toon. Modeling Radiative Heating Rates due to Airborne Mineral Aerosols. EOS Trans. AGU, Fall Meet., Suppl., 1997.

Sokolik I.N., Bergstrom R. W. and O.B.Toon. Modeling of optical and radiative characteristics of the airborne mineral aerosol in infrared region. Proceedings from the AMS Ninth Conference on Atmospheric Radiation, Long Beach, California, February 2-7, 1997.

Sokolik, I.N., Toon O.B. and R.W. Bergstrom. Regional direct radiative forcing by airborne mineral aerosols. Proceedings from the AGU Spring Meeting, Baltimore, MA, 27-30 May, 1997.

Bergstrom, R.W., Mlaver E., Clough A., Sokolik I., Toon O.B., and S. Kinne. Solar radiative transfer under cloud-free conditions. Proceedings from the Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, September 9-12, 1997.

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Sokolik, I.N., Toon O.B. and R.W. Bergstrom. Direct radiative forcing by airborne mineral aerosols: regional heating or cooling? Proceedings from the 16th Annual Conference of American Association for Aerosol Research, Denver, CO, October 13-17, 1997.

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Quijano, A.L., I. N. Sokolik, and O. B. Toon. Modeling Radiative Heating Rates due to Airborne Mineral Aerosols. EOS Trans. AGU, Fall Meet., Suppl., 1997.

Bergstrom, R., S. Kinne, I. Sokolik, B. Toon, E. Mlawer, T. Clough, and T. Ackerman. A fast accurate radiative transfer model for use in climate codes. Proceedings from the International Radiation Conference, Fairbanks, Alaska, August 16-21, 1996.

Bergstrom, R.W., Sokolik I.N. and O.B. Toon. Effects of airborne mineral aerosol on solar and infrared radiative forcing. Proceedings from the 15th Annual Conference of American Association for Aerosol Research, Orlando, Florida, October 14-18, 1996.

Valero, F.P.J, Sokolik I.N. and P. Pilewskie Airborne measurements of the radiative and optical properties of smoke produced by the biomass burning during the SCAR-C field mission. Proceedings from the AGU Chapman Conference on Biomass Burning and Global Change, Williamsburg, Virginia, March 13-17 1995.

Sokolik, I.N., F.P.J. Valero, and P. Pilewskie. Variability of radiation characteristics of the plume from the Kuwait oil fires. Proceedings from the AGU Chapman Conference on Biomass Burning and Global Change, Williamsburg, Virginia, March 13-17 1995.

Professional Activities (past 5 years):

Science Team Membership:

Northern Eurasia Earth Science Partnership Initiative (NEESPI), 2003-present
IPY Activity #140, The Hydrologic Impacts of Arctic Aerosol (HIAA), 2007-present
NASA CALIPSO/CloudSat Science Team, 2005-present
GOSAT (Greenhouse Gases Observing Satellite), Japan Aerospace Exploration Agency, 2008-present

Organization of workshop, conferences or AGU Sessions:

Co-Convener, Session on Land-Atmosphere-Cryosphere Interactions in Northern Eurasia, EGU General Assembly, Vienna, Austria, Apr. 14-19, 2009.
Co-Convener, Session on Land-Atmosphere-Cryosphere Interactions in Northern Eurasia, AGU, Fall Meeting, 2008.
Chair, Third International Workshop on Mineral Dust, Leipzig, Germany, Sep. 14-17, 2008.
Co-Organizer, International Workshop on Environmental and Climate Change Problems in High Latitudes of Northern Eurasia, Finland, June 2-6, 2008.

Co-Convener, Session on Northern Eurasia Earth Science Partnership Initiative (NEESPI): Integrated Approach to Regional Climate and Environment Change Studies, AGU, Fall Meeting, 2007.

Co-Organizer, Workshop on Northern Eurasia land surface properties and change and its role in the Global Earth System, Aspen Climate Change Institute, Aspen, CO, Aug., 2007.

Co-Convener, Session on Northern Eurasia Regional Climate and Environmental Change, AGU, Fall Meeting, 2006.

Co-Convener, Session on Northern Eurasia Regional Climate and Environmental Change, AGU, Fall Meeting, 2004.

Chair, Second International Workshop on Mineral Dust, Paris, France, Sep. 10-12, 2003.

Invited Editor:

Special issue on Saharan dust experiment (SAMUM) in *Tellus* (published in 2009)

Special issue on Northern Eurasia Regional Climate and Environmental Change in *Journal of Global and Planetary Change* (published in 2007)

Co-Organizer, Special issue on Quantifying the Radiative and Biogeochemical Impacts of Mineral Dust in *Journal of Geophysical Research- Atmosphere* (published in 2005)

Organizer, Special issue on Mineral Dust: Review of recent progress and remaining challenges (collection of 7 review papers) in *Atmospheric Physics and Chemistry* (to be submitted in June 2009)

Other:

Journal Reviewer for Science, Nature, PNAS, JGR-Atmosphere, GRL, Tellus, Atmospheric Environment, Atmospheric Chemistry and Physics, Global and Planetary Change.

Proposal Reviewer for National Science Foundation, Department of Energy, NOAA, NASA, German National Science Foundation, Netherlands National Science Foundation, French CNRS.

External Promotion and Tenure Package Reviewer for Department of Atmospheric Sciences, University of Utah; Department of Earth System Science, University of California, Irvine; Scripps Institution of Oceanography, University of California; City University of Hong Kong.

Committees –Georgia Institute of Technology:

Member, College of Sciences Dean Advisory Committee, 2004-2007

Chair, EAS Graduate Studies Committee, 2006- present

Member, EAS Faculty Search Committee, 2008-present

Member, EAS Chair Review Committee, 2007-2008

Member, EAS Graduate Studies Committee, 2004- 2006

Member, EAS Faculty Search Committee, 2004-05

Member, EAS Graduate Admissions Committee, 2003-04

Committees –University of Colorado at Boulder:

Chair, Committee on Academic Community and Diversity, Univ. of CO, Fall 2002/Spring03

Member, Art and Science Council, Univ. of CO, Fall2001/Spring03

Member, Personnel Committee, Univ. of CO, Fall2001/Spring02

Member, Executive Committee, Univ. of CO, Fall 2002

Chair, PAOS, Admission Committee, Fall 2002/Spring03

Member, PAOS Executive Committee, Fall2002/Spring03

Member, Post Tenure Review Committee for Prof. Webster, Fall2001

Member, PAOS Admission Committee, Fall2000/Spring01

Member, PAOS Laboratory and Facilities Committee, Fall2000/ Spring01

Member, Tenure committee for Prof. Lynch, Fall2000

Member, PAOS Strategic Plan Committee, Fall2000

Membership in Professional and Honor Societies:

American Geophysical Union (AGU)

Graduate and Undergraduate Students Supervised/Principal Advisor:

Ana Lia Quijano (Ph.D. 2001), University of Oxford, UK

Olga Kalashnikova (Ph.D. 2002), Scientist at Jet Propulsion Laboratory, Pasadena, CA

Kremena Darmenova (Ph.D. 2006), Research Scientist at Georgia Tech

Bryan Karpowicz (M.S. 2006)

Gill-Ran Jeong (Ph.D. 2007), Postdoc at MIT

Thomas Kampe (Ph.D. 2008), NEON/NSF

Anton Darmenov (Ph.D. 2008), Postdoc at Georgia Tech

Erica Alston ((PhD. students, 2007-present)

Gregory Boer (Ph.D. student, 2001-present)

Huyng-Jin Choi (Ph.D. student, 2006-present)

Cindy Jackson (Ph.D. student, 2009-present), co-advised with Dr. Dufek

Prashant Kumar (Ph.D. student, 2007-present), co-advised with Dr. Nenes

Zheng Lu (Ph.D. student, 2007-present)

Drexel Waggoner (Ph.D. student, 2004-present)

Xi Xin (PhD. student, 2007-present)

Postdoctoral Fellows and Researches Supervised:

Dr. Aleks Karabanov (2008-present) (part time)

Dr. Henian Zhang (2008-present), co-advised with Dr. Curry

Dr. Anton Darmenov (2009-present)

Dr. Kremena Darmenova (2006-present)

Dr. Yasunori Kurosaki (2006-2008)

Dr. Sandra Lafon (2004- 2006)

Dr. Jie Xuan (2000-2003)

Dissertation/Thesis Committee or Ph.D. Qualifying Examination Committee:

Georgia Institute of Technology:

Chair, Ph.D. Qualifying Examination Committee for:

Marilee Roel, EAS

Changsub Shim, EAS

Wenxian Zhang, EAS

Dasa Gu, EAS

Member, Ph.D. Qualifying Examination Committee for:

Terry Lathem, EAS

Xin Xi, EAS

Zheng Lu, EAS

Huyng-Jin Choi, EAS

Manuel Zuluaga, EAS

Erica Alston, EAS

Alisa Holley, EAS

Shekhar Chandra, EAS

Drexel Waggoner, EAS

Khara Lombardi, EAS
Kremena Darmenova, EAS
Greg Boer, EAS
Gill-Ran Jeong, EAS.
Anton Darmenov, EAS.
Bryan Karpowicz, EAS.

Chair, Ph.D. Dissertation Committee for:

Kremena Darmenova, EAS
Gill-Ran Jeong, EAS
Anton Darmenov, EAS
Tom Kampe, CU

Member, Ph.D. Dissertation Committee for:

Prashant Kumar, ChBE
Wenxian Zhang, EAS
Donifan Barahona, ChBE
Kurcak Kaynak, CEE
Yaping He, EAS
Jerald Estupinan, EAS
Aleksandr Karabanov, EAS
Saiwung Kim, EAS

University of Paris VII/XII:

Member, Dissertation Committee for Sandra Lafon.

University of Colorado:

Chair, Master Committee for James McCreight , PAOS, University of Colorado.

Chair, Ph.D. Qualifying Examination Committee for Olga Kalashnikova, PAOS.

Chair, Ph.D. Qualifying Examination Committee for Lansing Madry, PAOS.

Member, Ph.D. Qualifying Examination Committee for:

Ana Lia Quijano, PAOS
Tom Kampe, PAOS
Daria Halkides, PAOS
Janet Intieri, ASEN
Teresa Segura, ASEN
Peter Colarco, PAOS.

Member, Dissertation Committee for:

Ana Lia Quijano, Ph.D. Candidate in PAOS
Sandy Starkweather, Ph.D. Candidate in Geography.
Hugh Morrison, Ph.D. Candidate in PAOS.
Janet Intieri, Ph.D. Candidate in ASEN.
Peter Colarco, Ph.D. Candidate in PAOS.
Teresa Segura, Ph.D. Candidate in PAOS.
Timothy Benner, Ph.D. Candidate in PAOS.