

## ICL QUESTIONNAIRE

NAME: Richard Collins

GRANT PERIOD: September 16- December 15, 2006

PRESENT POSITION IN US: Associate Professor of Atmospheric Sciences

BORN: November 17, 1965

LANGUAGES: English

### GERMAN HOST INSTITUTION

Universität Rostock

### ACADEMIC DISCIPLINE

Atmospheric Sciences

### AREAS OF RESEARCH

Remote Sensing of the Atmosphere  
Physics and Chemistry of the Atmosphere  
Laser Physics and Engineering

### POSSIBLE LECTURE TOPICS

Weather and Climate of Alaska  
Science of the Ozone Hole  
The Aurora

### ACADEMIC TRAINING AND DEGREES

Ph.D., Electrical Engineering, January 1994, University of Illinois.  
M.S., Electrical Engineering, May 1988, Case Western Reserve University.  
B.E., Electronic Engineering, July 1986, National University of Ireland.

### PREVIOUS POSITIONS

Associate Professor of Electrical and Computer Engineering  
Assistant Professor of Electrical and Computer Engineering  
Research Assistant Professor of Space Physics and Aeronomy  
Winter-Over Project Engineer, Amundsen-Scott South Pole Station.

### PUBLICATIONS (SELECTED)

- R. L. Collins, and R. W. Smith, Evidence of damping and overturning of gravity waves in the Arctic mesosphere: Na lidar and OH temperature observations, *Journal of Atmospheric and Solar-Terrestrial Physics*, 66, 867-879, 2004.
- S. A. Ferguson, R. L. Collins, J. Rutherford, and M. Fukuda, Vertical distribution of smoke following a wildland biomass fire in boreal Alaska, *Journal of Geophysical Research*, vol. 108, no. D23, 4743, 2003
- R. L. Collins, M. C. Kelley, M. J. Nicolls, C. Ramos, T. Hou, T. E. Stern, K. Mizutani and T. Itabe, Simultaneous Lidar Observations of a Noctilucent Cloud and an Internal Wave in the Polar Mesosphere, *Journal of Geophysical Research*, vol. 108, no. D8, 8435, 2003.
- E. D. Brown, J. H. Churnside, R. L. Collins, T. Veenstra, J. J. Wilson, K. Abnett, Remote sensing of capelin and other biological features in the North Pacific using lidar and video technology, *ICES Journal of Marine Science*, vol. 59, no. 5, October 1, 2002.