Colorado School of Mines
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Web site: http://www.mines.edu/Research/

Center for Commercial Applications of Combustion in Space (CCACS)

The Center for Commercial Applications of Combustion in Space (CCACS) is a NASA/Industry/ University space commercialization center based at the Colorado School of Mines. The mission of CCACS is to assist industry in developing commercial products by conducting combustion research that takes advantage of the unique properties of space.

CCACS operates under the auspices of NASA's Office of Space Product Development (OSPD), whose mission is to provide access to space for commercial research and development activities by private industry. The focus of CCACS is on products and processes in which combustion plays a key role and which can benefit from knowledge to be gained through experiments conducted in space. Examples include combustors, fire suppression and safety, combustion synthesis of advanced materials and sensors and controls. CCACS involves faculty and students from the departments of Chemical Engineering, Engineering, Metallurgical and Materials Engineering, and Physics.

Background:

- Began operations in May, 1996
- Recognized National Aeronautical Space Administration (NASA) Center
- Established leader in combustion engineering

Areas of Expertise:

- Commercial opportunities in space
- Combustion in space
- Combustors
- Fire suppression and safety
- Advanced materials
- Sensors and controls

Sponsoring Organizations:

- NASA Glenn Research Center, Marshall Space Flight Center
- *Industry partners:* Guigné International, Ltd.; Technology International, Inc.; TDA Research; CoorsTek; ITN Energy; Roper Instruments; ART, Inc.; Innovative Scientific Solutions, Inc.; ADA Technologies; EEC, Inc.; Solar Turbines; Hewlett-Packard; Lockheed-Martin; Sulzer Biologics, Inc.; Informed Diagnostics
- *Universities:* CU-Boulder; CU-Health Sciences

Method of Technology Transfer:

- Education
- Outreach programs
- ***Web site: http://www.mines.edu/research/ccacs/***

Spin-offs / Contributions:

- Commercial products
- New technology in space
- Economic development
- Improving environment

Contact CCACS Director, Dr. Frank Schowengerdt, Physics Department, Hall of Justice, Room 131; (303) 384-2091; fschowen@mines.edu