

UNLV Center for Atmospheric & Oceanic Sciences (CAOS)

OBJECTIVE: The College of Sciences at UNLV will establish a Center for **Atmospheric & Oceanic Sciences called (CAOS)**. The Center will be housed in the Department of Mathematical Sciences.

MISSION: CAOS will focus on:

- preparing UNLV students for careers in Atmospheric & Oceanic Sciences and fields related to Applied Atmospheric & Oceanic Sciences
- providing a platform for all interested and qualified faculty of the College of Sciences to start new research, nurture and sustain existing research, and participate (wherever possible) in all Atmospheric & Oceanic activities supported by DOD, DOE, NSF and NASA
- building firm and equitable relations with industries doing business with DOD, DOE and NASA
- competing for external funding
- helping the State of Nevada reach its goals as the next NASA Space Port
- implementing DOD, DOE, NSF and NASA work force development programs

Strategic Goals of CAOS

(1) Undergraduate

CAOS will recruit qualified undergraduate students to major in **Atmospheric & Oceanic Sciences** and all related disciplines. Efforts will be made to introduce these undergraduate students to research as early as possible.

(2) Graduate Studies

CAOS will use its research component to attract and retain qualified graduate students and faculty. All members of CAOS will be required to seek external funding to support graduate students and to promote their own research agenda.

(3) **Connection with DOD, DOE, NSF, NASA Centers and National Laboratories**

CAOS will establish a plan to connect its members to DOD, DOE, NASA Centers and appropriate National laboratories. Areas of expertise of the faculty will be tied to the needs of DOD, DOE and NASA. Faculty will be encouraged to participate in DOD, DOE and NASA Summer Programs.

(4) **Instrumentation Program**

CAOS will vigorously pursue an instrumentation program. Faculty will be encouraged to design, develop, test and launch new instruments in cooperation with DOD, DOE, NASA and industrial partners.

(5) **Data Management/The International Space Station**

CAOS will compete to design, develop and manage data bases for DOD, DOE and NASA or conduct experiments on board the International Space Station.

(6) **Education**

In addition to undergraduate and graduate courses, CAOS will incorporate the vast knowledge of Atmospheric & Oceanic Sciences of DOD, DOE and NASA into the class room. CAOS will work diligently for the development and implementation of an Atmospheric & Oceanic Sciences Program at UNLV.

(7) **Connection with State and Other Federal Agencies**

CAOS will seek additional connections with appropriate state and other federal agencies.

(8) **International Connection**

CAOS will promote research collaboration with all appropriate existing International Atmospheric & Oceanic Sciences Programs. Mutual exchange of national and international scientists will be encouraged.

Administration: CAOS will be administered by a Director assisted by an Associate Director and an Administrative Staff Assistant. The Director, serving for a renewable term of three years will report to the Head of the Department of Mathematical Sciences and the Dean of the College of Sciences. The Associate Director, appointed by and reporting directly to the Director, will serve for a renewable term of two years. The Director will be recommended by the Head of the Department and appointed by the Dean of the College of Sciences.

UNLV Atmospheric & Oceanic Sciences Day: CAOS will set the second Friday of each March as the “**UNLV Atmospheric & Oceanic Sciences Day**”. Faculty and students will display their annual research accomplishments.

Advisory Board: An Advisory Board composed of the Director, the Dean of the College of Sciences, and representatives of interested industrial partners will oversee CAOS. Every four years, CAOS will be subjected to a complete review. This review shall be conducted by the Advisory Board or its appointee.

Membership Eligibility:

- **Faculty:** All Faculty of the College of Sciences and the College of Engineering with active research in Atmospheric & Oceanic Sciences or related fields are eligible for membership.
- **Industry:** The representatives of all industrial partners will be eligible for membership.
- **State and Other Federal Agencies:** Membership will be extended to their representatives after a review by the Director.
- **Associate/Adjunct membership:** They are reserved only for international collaborators or partners.
- All memberships will be reviewed every five years.

Implementation Date: Spring 2005 (the earliest) or summer 2005 (the latest).