University of California
Office of the President

Office of the
Associate Vice President —
Business and Finance

Contracts and Grants Office

Memo
Operating Guidance

No. 87-20
July 23, 1987

VICE CHANCELLORS — BUSINESS AND FINANCE/ADMINISTRATION*
CONTRACTS AND GRANTS OFFICERS (NON-LAB)
OFFICE OF THE PRESIDENT FUNCTIONAL MANAGERS

Subject: Memorandum of Understanding Between the University of California Coordinating Committee for Nonlinear Science and NASA-Ames Research Center Concerning a Joint Program in Nonlinear Science

This memo transmits a copy of the Memorandum of Understanding (MOU) between the University of California Coordinating Committee for Nonlinear Science (CCNLS) and NASA-Ames Research Center (ARC). The MOU establishes a formal working relationship between the CCNLS and ARC for the purpose of planning collaborative research and education in the field of nonlinear science.

This MOU is an academic program planning mechanism only. As stated in Item 7 of the MOU:

> It is understood that no ARC or UC funds are committed or obligated under this Memorandum. Any and all activities which may require funding, either from ARC funds, UC funds, or both, shall be obligated by separate contractual, grant, or interchange instruments, for example, through NASA Ames/University Consortium Agreement.

The CCNLS was formed in 1984 by UC in response to the need for research and education in the field of nonlinear science. It consists of faculty members from six campuses (Berkeley, Davis, Los Angeles, Santa Barbara, Santa Cruz) and Los Alamos National Laboratory. In addition to planning conferences, workshops and summer school funded through the Office of the President, the CCNLS has organized a proposal for a Multi-Campus Research Unit on Nonlinear Science, and has also developed this MOU creating a planning process with NASA-Ames.

*Note: The addressees above represent the standard distribution of Contract and Grant Memos. Additional addressees, if any, may be added based on the subject of the Memo. See cc's.

The accompanying Contracts and Grants Memo No. 87-21 transmits the NASA-Ames University Consortium Agreement and explains when and how to use it. While we anticipate some of the research opportunities to be planned by CCNLS and ARC will meet the criteria for using the Consortium Agreement, the Consortium Agreement should not be used if the arrangement proposed would be more appropriately funded as a contract, grant or cooperative agreement.

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Subject Index: 22
Organization Index: F-650,U-~~145~~ 070

for David F. Mears
University Contracts and Grants
Coordinator

Enclosures

cc: Laboratory Contracts and Grants Officers
Associate Vice President Moore
Professor Abarbanel

ENCLOSURE

MOU

between

The University of California
Coordinating Committee for Nonlinear Science

and

NASA - Ames Research Center

concerning a Joint Program in Nonlinear Science

A. Background

Many of the most important problems of modern science are associated with nonlinear phenomena. These problems arise in diverse fields which are of interest to both NASA - Ames Research Center (hereinafter ARC) and The Regents of the University of California (hereinafter UC). In response to the need for research and education in Nonlinear Science, UC has formed the University of California Coordination Committee for Nonlinear Science (CCNLS) and is considering the formation of a Multicampus Research Unit (MRU) in Nonlinear Science. The CCNLS coordinates and assists activities such as conferences, workshops and summer schools at the various UC campuses and laboratories which promote research and education in Nonlinear Science. Since the ARC shares this strong interest in Nonlinear Science, it would be mutually beneficial for UC and ARC to establish a formal working relationship.

B. Understanding

1. This agreement represents a formal understanding between UC and ARC regarding the sharing of technical capabilities, facilities and personnel for research and education in areas of mutual interest involving Nonlinear Science. Some of the areas that are of great interest include but are not limited to fluid dynamics, control systems, flight dynamics, astrophysics, biology and chemistry.

2. There will be an Executive Committee on Nonlinear Science (hereinafter call the "Executive Committee") facilitating the cooperative effort between the UC and the ARC. The Chair of the Executive Committee will be appointed by the Chair of the UC Coordinating Committee or, upon its formation, the director of the MRU on Nonlinear Science. The Vice Chair will be appointed by the Director of the ARC.

3. The Chair and Vice Chair of the Executive Committee will report to the Chair of the UC Coordinating committee and the Director of the NASA - Ames Research Center.

4. The Chair and Vice Chair shall appoint eight additional members of the Committee, four from UC and four from ARC.

5. The purpose of the Executive Committee is to promote collaborative research and postgraduate education in Nonlinear Science by ARC and UC scientists. This will be done by:

(a) Providing opportunities for UC scientists to visit ARC and ARC scientists to visit UC for the purposes of collaborative research.

(b) Providing opportunities for pre-doctoral and post-doctoral students to work on scientific projects at ARC.

(c) Encouraging the offering of seminars and lecture series at ARC by UC scientists in areas of Nonlinear Science.

(e) Sponsoring summer schools and conferences in Nonlinear Science.

(f) Encouraging visiting research appointments at UC for distinguished scientists from the United States and abroad.

(g) Developing a high speed data transmission capability between ARC and UC to share information and computational facilities and to teleconference seminars.

In addition to these goals, we identify two principles which define he scope of activities. These are:

(a) An insistence on openness in the research of the JPNLS. No work of a classified or proprietary nature will be sponsored by the JPNLS or, through it, by any of its members; there will be no restriction on publications or dissemination of information, except as required by law.

(b) A dedication to cooperation among its participants. The Executive Committee will concentrate upon (i) coordination of the efforts of its participants, and (ii) projects that stimulate collaboration and exchange among its participants and with the general scientific community.

6. Arrangements implementing paragraph 5 above shall be consummated in such a manner as ARC and UC may agree, consistent with applicable law and regulation, and are to include, but not be limited to: cooperative agreements, contracts, grants, interchanges, and other relationships authorized by Public Law.

7. It is understood that no ARC or UC funds are committed or obligated under this Memorandum. Any and all activities which may require funding, either from ARC funds, UC funds, or both, shall be obligated by separate contractual, grant, or interchange instruments, for example, through NASA Ames/University Consortium Agreement.

8. This understanding is authorized on the part of ARC by Section 203(c) (5) and (c) (6) of the National Aeronautics and Space Act of 1958 (42 U.S.C. 2473) and executed in accordance with NASA Management Delegation 1050.3H of December 17, 1980.

9. This Memorandum of Understanding will come into force and effect on the last date appearing below the signatures of the parties, and will terminate in three (3) years unless terminated earlier by written notice of either party.

10. Renewal of this Memorandum of Understanding in three (3) years may be accomplished by the preparation of a new MOU properly reviewed and signed.

C. Administration

Administration of the Memorandum shall be the responsibility of the Aerophysics Directorate, Ames Research Center and The Regents of the University of California represented by the Chair of the Coordinating Committee on Nonlinear Science or upon its formation, the MRU on Nonlinear Science. Program matters shall be the responsibility of the Executive Committee on Nonlinear Science.

Wm F. Ballhaus, Jr.

William F. Ballhaus, Jr., Director
NASA - Ames Research Center

Henry D. I. Abarbanel

Henry D. I. Abarbanel
Acting Chairman of
California Coordinating
Committee for Nonlinear
Studies

Date

February 24, 1987

Date

Calvin C. Moore

Calvin C. Moore, Associate
Vice President for Academic
Affairs, University of
California

Feb. 24 1987

Date