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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

AD-A247 010



RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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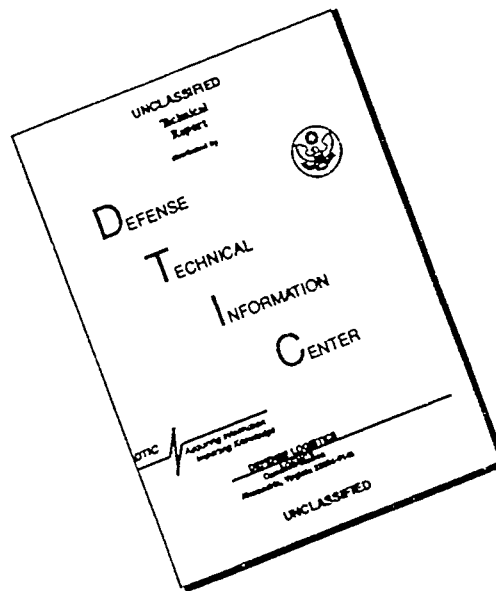
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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

JULY 1991

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION		1b. RESTRICTIVE MARKINGS	
SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE		Approved for public release; distribution unlimited.	
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
		AFOSR-TR- 92 0069	
6a. NAME OF PERFORMING ORGANIZATION Air Force Office of Scientific Research	6b. OFFICE SYMBOL (If applicable) XOTD	7a. NAME OF MONITORING ORGANIZATION AFOSR	
6c. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448		7b. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448	
8a. NAME OF FUNDING/SPONSORING ORGANIZATION AFOSR	8b. OFFICE SYMBOL (If applicable) XOTD	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER IN-HOUSE	
8c. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) Research Proposal Quarterly Status Report			
12. PERSONAL AUTHOR(S) Debra L. Tyrrell			
13a. TYPE OF REPORT Quarterly	13b. TIME COVERED FROM Apr. TO Jun 91	14. DATE OF REPORT (Year, Month, Day) July 91	15. PAGE COUNT
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
This research proposal status report is published quarterly as of March, June, September, and December of each year.			
DISTRIBUTION/AVAILABILITY OF ABSTRACT 1 UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
20a. NAME OF RESPONSIBLE INDIVIDUAL DEBRA L. TYRRELL		22b. TELEPHONE (Include Area Code) 202-767-9112	22c. OFFICE SYMBOL XOTD

INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

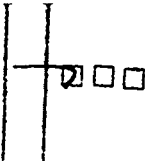
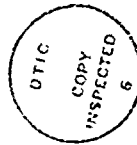
PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Systems Command, DCS/Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.



Availability Codes	
Dist	Avail and/or Special
A-1	23

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
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 Col Arthur L. Pavel, Deputy Director 5017

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Dr Leonidas Sake11	4938
Dr Amrutur Srinivasan	4935
Dr John Bots1s	0463
Dr Dan Fant	4937
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Dr James McMichael	6963
Dr Spencer Wu	4936
Dr Julian Tishkoff	6962
	0465

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Lt Col James A. Lupo	4908

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PART 1

INSTITUTION INDEX (1 APR 71) - 30 JUL 71)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - NA = ACCEPTED, DO = DECLINED, WA = WITHDRAWN

INSTITUTION	LAST NAME	FIRST NAME	MI	PROPOSAL	STATUS	PM NAME
Colorado School of Mines	Collins	Frank	V	91-NP-152		SCHLOSSER
Colorado State University	Collins	George	J	91-NP-153		SCHLOSSER
	Donahue	John	J	91-NC-182	D	LEE
	Frederick	John	M	91-NM-273		SJOGREN
Columbia University	Frederick	John	M	91-NP-098	A	SCHLOSSER
	Goldman	Donald		91-NM-247		GLASSMAN
	Goldman	John		91-NL-105		HADDAD
	Goldman	John		91-NP-107	A	RADOSKI
Computer Aided Design & Simulation Inc.	Goldman	John		91-NM-231	D	GLASSMAN
Cornell Univ. College of Engineering	Goldman	John		91-NP-145	D	DARKER
Cornell University	Goldman	John		91-NE-160		ROSENSTEIN
	Goldman	John		91-NA-123	D	TISHKOFF
	Goldman	John		91-NC-201		ERSTFELD
	Goldman	John		91-NE-198		POMRENKE
	Goldman	John		91-NP-155	A	SCHLOSSER
	Goldman	John		91-NA-154	A	MICHAEL
	Goldman	John		91-NP-131	D	DARKER
	Goldman	John		91-NE-173		POMRENKE
	Goldman	John		91-NC-180	D	HEDBERG
	Goldman	John		91-NP-151	D	DARKER
	Goldman	John		91-NM-222	D	HOLLAND
	Goldman	John		91-NC-176	A	LEE
	Goldman	John		91-NP-173	D	BARKER
	Goldman	John		91-NM-265	A	NACHMAN
	Goldman	John		91-NM-297	A	NACHMAN
	Goldman	John		91-XO-025	A	BOLAND
	Goldman	John		91-NL-100	A	CERVENY
	Goldman	John		91-NC-161	A	LEE
	Goldman	John		91-NC-179	A	LEE
	Goldman	John		91-NM-210		SJOGREN
	Goldman	John		91-NL-115	D	CERVENY
	Goldman	John		91-NP-146	A	BARKER
	Goldman	John		91-NM-213	A	GLASSMAN
	Goldman	John		91-NP-147		BARKER
	Goldman	John		91-NC-155	A	PERRAM
	Goldman	John		91-NA-163	D	SAKELL
	Goldman	John		91-NE-140	A	SCHIOLE
	Goldman	John		91-NE-143	D	SCHIOLE
	Goldman	John		91-NE-135	D	SCHIOLE
	Goldman	John		91-NL-079	A	CERVENY
	Goldman	John		91-NL-090	A	HADDAD
	Goldman	John		91-NL-103		HADDAD
	Goldman	John		91-NC-191		BURGGRAF
	Goldman	John		91-NC-159		BURGGRAF
	Goldman	John		91-NM-234	A	JACOBS
	Goldman	John		91-NE-180		POMRENKE
	Goldman	John		91-NC-154	A	LEE
	Goldman	John		91-NM-274		HOLLAND

REPORT OF 67/10/11

INSTITUTION INDEX C: APR 11 - 20 JUN 11
 ALL PAGES OF THE INSTITUTION INDEX ARE WITHDRAWN
 STATUS - 110 = NOT WITHDRAWN, 111 = WITHDRAWN, 112 = WITHDRAWN

PAGE 4

INSTITUTION

Minnesota Mining and Manufacturing Co.
 NASA - Ames Research Center
 1951 - 1952 International and Space Admin
 National Academy of Sciences
 National Science Foundation
 National Science Foundation

David Research Laboratory
 Electronics Inc
 Los Angeles Institute of Technology
 Los Angeles Institute of Technology
 New York University Medical Center
 Illinois Engineering and Research Co
 North Carolina State University

Northwestern University
 Northwestern University
 Northwestern University

Oak Ridge National Lab
 Office of Naval Research
 Ohio State Univ Research Foundation
 Ohio State University

Patron Systems Inc
 Patrons Institute for Study of Science

Patron State University
 Patrons Ltd.
 Patrons State University

INSTITUTION INDEX C: APR 11 - 20 JUN 11
 ALL PAGES OF THE INSTITUTION INDEX ARE WITHDRAWN
 STATUS - 110 = NOT WITHDRAWN, 111 = WITHDRAWN, 112 = WITHDRAWN

PROPOSAL	STATUS	PM NAME
91-NC-177		HEDBERG
91-NC-172		BURGGRAB
91-NP-103	A	LEMKONICZ
91-NP-163		LEMKONICZ
91-NC-170	A	STOBIE
91-NA-173	A	TISHKOFF
91-NP-170	A	KELLEY
91-NP-160	A	GARKER
91-NE-197	A	POMRENKE
91-NM-232	A	GLASSMAN
91-NP-149	D	GARKER
91-NC-186		BERMAN
91-ML-113		HADDAD
91-NC-165		STOBIE
91-NA-141	D	SAKELL
91-NP-137	D	GARKER
91-NE-159	D	POMRENKE
91-NA-134	D	WU
91-NP-153	D	POMRENKE
91-NE-171		WITT
91-NA-145		BOYCE
91-NM-299		JACOBS
91-NP-135	A	BARKER
91-ML-119	A	HADDAD
91-NM-239		SJOGREN
91-NM-205	A	WAKSMAN
91-NE-142	A	ROSENSTEIN
91-NE-139	A	ROSENSTEIN
91-NA-170		BOYCE
91-NA-150	A	MCMICHAEL
91-NM-243	A	SJOGREN
91-NC-194	A	BURGGRAB
91-NC-193	A	ERSTFELD
91-XO-024	A	OWENS
91-NA-187	A	TISHKOFF
91-NA-147	A	SAKELL
91-NM-261		WAKSMAN
91-NC-202		LEE
91-NE-155	D	WITT
91-NE-167		CRAIG
91-NP-120		BARKER
91-NC-191		STOBIE
91-NA-191		BOYCE
91-ML-099		HADDAD
91-NC-193		BURGGRAB
91-NA-177	A	WU
91-NP-122	A	BARKER
91-NA-101	A	DIRKAN

INSTITUTION INDEX (1 APR 81 - 30 JUN 81)
 AND FORCE OF SCIENTIFIC RESEARCH
 STATUS - 100 = ACCEPTED, 000 = DECLINED, 100 = WITHDRAWN

INSTITUTION	INVESTIGATOR	PROPOSAL	STATUS	PH NAME
Photon Research Associates Inc.	Tommenic	91-NA-101	A	TISHKOFF
Physical Sciences Inc.	Robert	91-NA-171	A	BIRKAN
Polytechnic Institute of New York	William	91-NE-124	A	SCHIOLE
Princeton University	Ion	91-NC-195	D	ERSTFELD
	Steven	91-NA-210		WU
	Spencer	91-NC-185	D	BERMAN
	T J	91-NP-123	D	BARKER
	Irvin	91-NA-193	D	SAKELL
	Anthony	91-NA-123	A	TISHKOFF
	Anthony	91-NM-260	A	JACOBS
	Irvin	91-NA-162	A	TISHKOFF
	John	91-NM-217	A	GLASSMAN
	John	91-NM-283	A	GLASSMAN
	Robert	91-NA-155	A	SAKELL
	Robert	91-NE-175	POMRENKE	
	Shanti	91-NM-263	SJOGREN	
	Dimitris	91-NM-251	N	GLASSMAN
	Chanderjit	91-NM-302	A	TISHKOFF
	Donald	91-NA-163	A	TISHKOFF
	Golan	91-NA-133	A	BOYCE
	John	91-NA-209	A	BOLAND
	John	91-XO-013	A	WITT
	Kavin	91-NE-132	D	SAKELL
	Alon	91-NA-141	D	ROSENSTEIN
	Robert	91-NE-162	BOYCE	
	George	91-NA-134	TANGNEY	
	Mark	91-NL-121	A	GLASSMAN
	Robert	91-NM-300	A	JACOBS
	Robert	91-NM-239	A	NACHMAN
	Robert	91-NM-290	A	SCHIOLE
	David	91-NE-143	A	BURGGRAP
	David	91-NC-183	A	BOLAND
	Patricia	91-XO-020	A	WAKSMAN
	Harbert	91-NM-241	A	HADDAD
	Allen	91-NL-089	A	BARKER
	John	91-NP-169	A	NACHMAN
	John	91-NM-253		WU
	Harold	91-NA-125	D	SCHIOLE
	Sylvia	91-NE-143	D	BOYCE
	Donald	91-NA-192	A	HADDAD
	Allen	91-NL-096	A	POMRENKE
	Allen	91-NE-134	D	WITT
	Harold	91-NE-150	A	HADDAD
	Harold	91-NL-104	A	HADDAD
	William	91-NL-087	A	HADDAD
	Suzanne	91-NL-091	A	KELLEY
	Robert	91-NP-101	A	GLASSMAN
	Robert	91-NM-235		

REPORT DATE: 07/15/71

INSTITUTION: ENC X
AND FORC. ENC. OF THE UNITED STATES
STATUS: - 100 = ACC. 000 = CANCELED, * = WITHDRAWN

PAGE 6

INSTITUTION	INVESTIGATOR	FIRST NAME	LAST NAME	PROPOSAL	STATUS	PM NAME
Southern Methodist University Southwest Research Institute Stanford University	Khatami	Alvin	A	21-NL-694	D	HADDAD
	Richards	Richard	A	21-NL-122	A	SCHIOLER
	Malcolm	Malcolm	A	21-NL-183	A	WEINSTOCK
	David	David	A	21-NP-173	A	SCHLOSSBER
	Dean	Dean	A	21-NA-202	A	SAKELL
	Steven	Steven	A	21-NP-157	A	KELLEY
	Steve	Steve	A	21-NP-167	A	KELLEY
	George	George	A	21-NM-291	A	GLASSMAN
	Joel	Joel	A	21-NA-165	A	SAKELL
	Joseph	Joseph	A	21-NE-177	A	CRAIG
State University of New York - Tech Edn	Stephen	Stephen	J	21-NA-132	A	MCMICHAEL
	David	David	A	21-NM-205	A	HOLLAND
	David	David	A	21-NA-167	A	MCMICHAEL
	Walter	Walter	A	21-NM-286	A	GLASSMAN
	William	William	A	21-NE-174	A	ROSENSTEIN
	Richard	Richard	A	21-NP-127	D	BARKER
	David	David	A	21-NM-289	A	SJOGREN
	Peter	Peter	A	21-NP-154	A	RADOSKI
	Wency	Wency	J	21-NL-101	A	HADDAD
	Michael	Michael	A	21-NE-195	A	WEINSTOCK
State University of New York - Tech Edn	Konstantin	Konstantin	A	21-NE-130	A	WEINSTOCK
	Arthur	Arthur	A	21-NL-099	A	HADDAD
	W.	W.	A	21-NM-245	A	SJOGREN
	Harold	Harold	A	21-NP-104	A	KELLEY
	Darke	Darke	A	21-NM-243	A	GLASSMAN
	Terry	Terry	A	21-NL-111	A	CERVENY
	Robert	Robert	A	21-NM-207	A	SJOGREN
	Robert	Robert	A	21-NM-230	A	SJOGREN
	Carolyn	Carolyn	A	21-NL-109	D	CERVENY
	Conrad	Conrad	A	21-NA-158	A	WU
Texas A and M University	William	William	A	21-NM-257	A	JACOBS
	Richard	Richard	A	21-NE-163	A	ROSENSTEIN
	Peter	Peter	A	21-NP-142	D	BARKER
	John	John	A	21-NM-270	A	NACHMAN
	John	John	A	21-NA-160	A	BOYCE
	Mark	Mark	A	21-NM-240	A	SJOGREN
	Mark	Mark	A	21-NP-118	D	BARKER
	Paul	Paul	A	21-NM-216	A	SJOGREN
	James	James	A	21-NA-164	A	BIRKAN
	James	James	A	21-NP-134	D	BARKER
Texas Tech University	John	John	A	21-NL-083	A	CERVENY
	David	David	A	21-NP-159	A	KELLEY
	Mark	Mark	A	21-NL-175	A	LEE
	James	James	A	21-NA-120	A	FANT
	James	James	A	21-NL-095	A	CERVENY
	James	James	A	21-NL-113	A	CERVENY
	James	James	A	21-NL-073	A	CERVENY
	James	James	A	21-NC-193	A	HEDBERG
	James	James	A	21-NC-193	A	HEDBERG
	James	James	A	21-NC-193	A	HEDBERG

REPORT DATE: 07/15/61

INSTITUTION AND NAME (1) FOR 91 - 30 JUL 61
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 910 = ACCEPTED, 911 = DECLINED, 912 = WITHDRAWN

PAGE 7

INSTITUTION	LAST NAME	FIRST NAME	PROPOSAL	STATUS	PM NAME
Univ of California	Carson	Isidore	91-NA-175		BOYCE
	Carroll	Tom	91-NP-164	A	RADOSKI
	Katkov	Julius	91-NE-183		POMRENKE
	Lavertine	Cl	91-NM-203	A	NACHMAN
	Baril	Greg	91-NP-182	D	SCHLOSSER
	Benford	Gregor	91-NP-114	D	BARKER
	De Groot	John	91-NP-115	D	BARKER
	Wynne	Robert	91-NE-195	A	WEINSTOCK
	Brumbaum	E. Alberto	91-NM-231		NACHMAN
	Harowitz	Isaac	91-NM-211	D	JACOBS
Univ of California	Kunt	Charles	91-NP-140		BARKER
	Kokotovic	Peter	91-NM-274	A	JACOBS
	Lalinton	Fernance	91-NL 110	D	CERVENY
	Lin	Anthony	91-NP-119	D	BARKER
	Lumman	Neville	91-NP-177	A	BARKER
	Lumman, Jr	Neville	91-NP-112	A	BARKER
	Maroden	Jerrold	91-NP-113	D	BARKER
	Misner	James	91-NM-271		NACHMAN
	Pitcher	Robert	91-NP-139	D	BARKER
	Shack	John	91-NE-141	D	SCHOLER
Univ of California: San Diego	Shack	John	91-NE-147	D	SCHOLER
	Watt	John	91-NE-125	D	SCHOLER
	Watt	John	91-NE-201		WITT
	Watts	Peter	91-NM-284		GLASSMAN
	Dickens	Thomas	91-NL-085		HAODAD
	Asaro	Robert	91-NE-119	A	ROSENSTEIN
	Sodderf	Joe	91-NA-206	A	BOYCE
	Harper	Elvin	91-NL-031	A	CERVENY
	Nemut-Vasser	Silvencio	91-NA-123	A	BOYCE
	Gottlieb	Lawrence	91-NL-084	A	CERVENY
Univ of Chicago	Arkvis	Paul	91-NA-137	D	AKELL
	Rubin	Stanley	91-NA-169	D	AKELL
	Anderson	John	91-NE-164	A	CRAIG
	Copely	Snelliey	91-NL-112	A	CERVENY
	Holbert	Leo	91-NP-102	A	KELLEY
	Kutsey	David	91-NA-139	A	BIRKAN
	Wichi	Joseph	91-NC-184	A	LEE
	Sauer	Jon	91-NE-145	A	CRAIG
	Linmerman	Klaus	91-NE-169	D	WEINSTOCK
	War-Shalom	Yakov	91-NM-224	A	GLASSMAN
Univ of Connecticut	Gillman	John	91-NE-163		POMRENKE
	Jordan	Eric	91-NA-152	D	BOYCE
	Caou	Frederic	91-NE-127	D	SCHOLER
	Coiten	David	91-NM-213		NACHMAN
	Kolodney	James	91-NE-172	A	POMRENKE
	Shinnagan	Isaac	91-NA-139		WU
	Coombe	Robert	91-NC-160	A	PERRAM
	Artlett	Rodney	91-NP-173	A	BURGGRAD

INSTITUTION AID (1 APR 81 - 30 JUN 81)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 (AFOSR) - AFOSR = AEC-01-0, 00 = 0 CL-0, 00 = WITHDRAWN

INSTITUTION	LAST NAME	FIRST NAME	PROPOSAL	STATUS	PM NAME
UNIV of Missouri	Waller	John	91-NP-172		SCHLOSSER
UNIV of New Hampshire	Waller	John	91-NP-151		POMRENKE
UNIV of New Mexico	Waller	John	91-NP-171		RADOSKI
UNIV of North Carolina	Waller	John	91-XO-013	A	BOLAND
UNIV of North Texas	Waller	John	91-XO-017	A	BOLAND
UNIV of Notre Dame	Waller	John	91-NL-117		HADDAD
UNIV of Oklahoma	Waller	John	91-NL-105		CERVENY
UNIV of Pennsylvania	Waller	John	91-NL-103		CERVENY
	Waller	John	91-NL-194		SUDDARTH
	Waller	John	91-NL-174		MCMICHAEL
	Waller	John	91-XO-023	A	BOLAND
	Waller	John	91-NM-204		WAKSMAN
	Waller	John	91-NE-185		ROSENSTEIN
	Waller	John	91-NE-202		SUDDARTH
	Waller	John	91-NE-181		ROSENSTEIN
	Waller	John	91-NE-179	A	WEINSTOCK
	Waller	John	91-XO-022	A	BOLAND
	Waller	John	91-NP-125	D	BARKER
	Waller	John	91-NP-124	A	BARKER
	Waller	John	91-NM-289		SJOGREN
	Waller	John	91-NL-120		HADDAD
	Waller	John	91-NE-131		CRAIG
	Waller	John	91-NM-265		JACOBS
	Waller	John	91-NM-297		SJOGREN
	Waller	John	91-NE-173		SUDDARTH
	Waller	John	91-NM-253		JACOBS
	Waller	John	91-NM-237		GLASSMAN
	Waller	John	91-NP-110	D	BARKER
	Waller	John	91-NP-136	D	BARKER
	Waller	John	91-NA-200		BOYCE
	Waller	John	91-NE-191		SCHIOLER
	Waller	John	91-XO-021	A	BOLAND
	Waller	John	91-NM-236		GLASSMAN
	Waller	John	91-NL-093	D	HADDAD
	Waller	John	91-NA-142	D	SAKELL
	Waller	John	91-NP-111	D	BARKER
	Waller	John	91-NF-189	A	POMRENKE
	Waller	John	91-NA-190		BOYCE
	Waller	John	91-NP-123	D	BARKER
	Waller	John	91-NP-143	D	BARKER
	Waller	John	91-NP-144	D	BARKER
	Waller	John	91-NP-149	D	BARKER
	Waller	John	91-NA-181		MCMICHAEL
	Waller	John	91-NE-121	D	SCHIOLER
	Waller	John	91-NC-153		BURGGRAB
	Waller	John	91-NP-183	A	KELLEY
	Waller	John	91-NM-273		JACOBS
	Waller	John	91-NP-108	A	RADOSKI

REPORT DATE 07/15/91

INSTITUTION FOR X C 1 APR 91 - 30 JUN 91

PAGE 10

ALL SCIENTIFIC RESEARCH
STATUS - 000 = ACCEPTED, 001 = PUBLISHED, 002 = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	PROPOSAL	STATUS	PM NAME
Univ of Washington	David	Michael	91-NE-179		POMRENKE
	David	George	91-NL-092		HADDAD
	David	David	91-NA-132		MCMICHAEL
	David	Peter	91-NC-157		STOBIE
Univ of Western Ontario	David	Warren	91-NP-161	A	KELLEY
	David	Michael	91-NI-001	A	CAVENDER
	David	James	91-NP-166		KELLEY
	David	John	91-NP-141	A	BARKER
Univ of Wisconsin	David	John	91-NE-152	D	SCHIOLER
	David	Richard	91-NM-255		NACHMAN
	David	James	91-NE-193	A	WEINSTOCK
	David	Paul	91-NA-143	D	FANT
Univ of Wyoming	David	James	91-WC-162		BURGGRAF
	David	James	91-NM-272		GLASSMAN
	David	Leonard	91-NA-173	A	WU
	David	Raymond	91-NA-124		WU
University of Wisconsin-Madison	David	Michael	91-NA-197		BOYCE
	David	Michael	91-NA-193		BOYCE
	David	Michael	91-NE-123	A	SCHIOLER
	David	Michael	91-NM-252		JACOBS
Washington State University	David	Joseph	91-NA-173		SAKELL
	David	Joseph	91-NA-207		FANT
	David	Michael	91-NL-097	D	HADDAD
	David	Michael	91-NA-193	A	WU
Washington State University	David	Michael	91-NM-227		NACHMAN
	David	Michael	91-NE-157	A	CRAIG
	David	Michael	91-NE-114		CERVENY
	David	Michael	91-NP-155		LUPO
West Virginia University	David	Michael	91-NE-123	A	WEINSTOCK
	David	Michael	91-NE-165	A	CRAIG
	David	Michael	91-NE-200	D	WEINSTOCK
	David	Michael	91-NP-106	A	KELLEY
Virginia Polytechnic Inst & State Univ	David	Michael	91-NM-267		WAKSMAN
	David	Michael	91-NE-132	A	WITT
	David	Michael	91-NP-116	D	BARKER
	David	Michael	91-NE-203		SUGGARTH
Washington State University	David	Michael	91-NE-153		WITT
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PART II

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AAS FORC- OFFIC. OF SCIENTIFIC RESEARCH
EXTERNAL LAB PROPOSALS

PAGE 1

21V-571GAT03

Header

Leonard

Kersley

Rutherford & Appleton Laboratories

Kannnetn

Univ of Manchester Inst of Sci & Tech

1705/91
\$15,000

Harrison

33105

David J. ...

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAG' PROPOSAL #	INITIATE START DATE TOT AMT
N 24 11/06/91 \$83,619	A OWENS 91-EX-017	\$48,319 01/09/91 \$83,619
N 36 05/06/91 \$170,351	A OWENS 91-EX-015	\$52,797 01/08/91 \$170,351
N 24 05/06/91 \$63,000	A OWENS 91-EX-016	\$31,500 01/09/91 \$63,000
N 24 17/05/91 \$15,000	A OWENS 91-EX-014	\$7,500 01/09/92 \$15,000
N 36 18/04/91 \$183,383	A OWENS 91-EX-013	\$53,144 01/07/91 \$183,383
N 36 17/04/91 \$150,000	A OWENS 91-EX-012	

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PLANS AND OPERATIONS

PAGE 1

TITLE (CONT.)
INSTITUTION

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
UNIVERSITY RESIDENT RESEARCH PROGRAM Miami University	Rosenel Thomas	R 12 01/04/91 \$11,978	A BOLAND 91-XO-016	\$11,978 01/08/91 \$71,864
UNIVERSITY RESIDENT RESEARCH PROGRAM Purdue University	Thompson H. Doyle	R 03 01/04/91 \$24,730	A BOLAND 91-XO-018	\$24,730 20/05/91 \$24,730
NONPARAMETRIC DISTRIBUTION ESTIMATION FROM CENSORED OBSERVATIONS Univ of Texas	Arjona Jorge	R 12 03/05/91 \$66,053	A BOLAND 91-XO-021	\$5,504 01/09/91 \$66,053
PREPLASMA CRYSTALLINITY RNA Univ of Scranton	DeVecchio Vito	N 12 06/05/91 \$41,425	A BOLAND 91-XO-022	\$23,188 03/06/91 \$41,425
ELECTRON AND NEGATIVE ION INTERACTIONS WITH MOLECULES Univ of Oklahoma	Miller Thomas	R 12 13/05/91 \$106,826	A BOLAND 91-XO-023	\$30,646 01/06/91 \$106,826
OPTICAL PROPERTIES OF SPACECRAFT THERMAL CONTROL COATING PIGMENTS Alfred University	Cordaro James	N 09 12/06/91 \$75,651	A BOLAND 91-XO-027	\$10,851 01/09/91 \$75,651
AEROBIC EFFECTS ON +GZ TOLERANCE IN HUMANS Florida Univ-Coll of Veterinary Medicine	Bauch Emerson	R 12 20/05/91 \$126,157	A BOLAND 91-XO-026	\$10,483 01/09/91 \$126,157
PHOTIC ENTRAINMENT OF CIRCADIAN RHYTHMS Mercyhurst College	Lutton Lewis	R 01 20/05/91 \$6,427	A BOLAND 91-XO-025	\$6,427 01/08/91 \$6,427
MODELING FOR COMPUTER TIME FOR AFIT ANALYSIS Lawrence Livermore Lab (Calif Univ)	Seaton Janelle	N 03 27/06/91 \$10,000	A EWING 91-XO-028	\$10,000 01/06/91 \$10,000

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PLANS AND OPERATIONS

PAGE 2

TITLE (CONT.)
INSTITUTION

GOVERNMENT-UNIVERSITY-INDUSTRY RESEARCH ROUNDTABLE

Office of Naval Research

NINE-BAND ANTENNA ARRAYS

Univ of New Hampshire

UNIVERSITY RESIDENT RESEARCH PROGRAM

Univ of New Mexico

INTELLIGENT HYPERTEXT SYSTEM FOR TRAINING IN CRITICAL THINKING
SKILLS

Rose-Hulman Institute of Technology

INV-STEIGATOR

Paolletti

Chuck

Sivaprasad

Kondasunt

Moore

Gerald

Carlson

Patricia

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 12 15/05/91 \$41,000	A OWENS 91-XO-024	\$41,000 01/07/91 \$41,000
R 12 19/04/91 \$37,827	A BOLAND 91-XO-019	\$12,220 16/07/91 \$37,827
N 12 01/04/91 \$24,849	A BOLAND 91-XO-017	\$24,849 01/05/91 \$60,314
R 12 19/04/91 \$94,209	A BOLAND 91-XO-020	\$12,175 15/08/91 \$94,209

REPORT DATE: 07/15/91

PROPOSAL STATUS REPORT 11 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
OFFICE OF AEROSPACE SCIENCES

PAGE 1

TITLE (CONT.)
SUBSTITUTION

INVESTIGATION

CONTRIBUTION OF MECHANICAL LOAD TO TURBULENCE IN FRC COMPOSITES

Inv of Michigan

Antonia

A NEW APPROACH FOR MODELING THE ELASTIC BEHAVIOR OF PLAIN

COMPOSITE
STRUCTURE

Ref

Antonia

RAPID CONCENTRATION MEASUREMENTS BY PICOSECOND TIME-RESOLVED
LASER-INDUCED FLUORESCENCE

Purdue University

John

A STUDY OF ELECTRO-RAFT CATALYTIC REACTIONS AT AQUEOUS TURBULENT
FLOW

Inv of Maryland

Johnson

MOLECULAR ANALYSIS OF MULTIPLE DEFORMED LAMINATES WITH INTERPOLY
CONTACT CONSTRAINTS

Inv of Oklahoma

Chenman

John

EFFECT OF RAMP-DOWN MOTIONS ON THE HYDRODYNAMIC CHARACTERISTICS OF
TWO-DIMENSIONAL AIRFOILS

Inv of Glasgow

McD Campbell

Roderick

EXPERIMENTAL STUDY OF WALL COLLISIONS AND PRESSURE GRADIENTS ON THE
LARGE SCALE STRUCTURE AND EVOLUTION OF TURBULENCE

Inv of Texas

Jolliffe

David

THE INFLUENCE OF HIGH TURBULENCE LEVELS ON THE TRANSFER IN
INTERNAL FLOWS

Inv of Arizona

Jolliffe

Paul

ALL TURBULENCE

Inv of Illinois

Johnson

Thomas

TYPE/MONTHS
RECEIVED
AMOUNT

STATUS
PROGRAM MANAGER
PROPOSAL #

INITIATE
START DATE
TOT AMT

N 36
02/04/91
\$291,335

WU
91-NA-125

N 24
02/04/91
\$197,817

WU
91-NA-126

N 36
13/04/91
\$375,319

A
YISHKOFF
91-NA-133

\$125,015
01/08/91
\$375,318

N 26
16/04/91
\$325,475

D
SAKELL
91-NA-136

N 12
13/04/91
\$125,312

WU
91-NA-139

N 24
23/04/91
\$153,458

D
FANT
91-NA-140

N 36
23/04/91
\$271,681

D
SAKELL
91-NA-142

N 12
30/04/91
\$23,680

D
FANT
91-NA-149

N 32
30/04/91
\$394,272

MCMICHAEL
91-NA-151

REPORT DATE: 07/15/91

PROPOSAL DATES: 01 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION
DEPARTMENT OF AEROSPACE SCIENCES

PAGE 2

TITLE (SHORT) SUBSTITUTION	INITIATOR	PILOT	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A NONDESTRUCTIVE ANALYSIS OF DAMAGE			Y 36 06/05/91 \$359,754	WU 91-NA-158	
Terra Tek Inc	Conrad				
DEVELOPMENT OF THREE-DIMENSIONAL ADAPTIVE GRID GENERATION TECHNIQUES FOR COMPLEX FLOW SIMULATION			N 36 06/05/91 \$266,326	D SAKELL 91-NA-159	
Univ of Florida	Chen-Gui				
PROPOSED CONTINUATION FOR AIR FORCE RESEARCH ON HYPERCOMPRESSION			N 12 07/05/91 \$153,241	A TISHKOFF 91-NA-163	\$173,673 15/08/91 \$173,673
TECHNOLOGY CAPABILITY Purdue University	Sanford				
A FUNDAMENTAL STUDY OF HYPERBOLIC			N 24 10/05/91 \$11,997	A SAKELL 91-NA-165	\$43,778 01/10/91 \$81,997
Univ of Maryland	Dark				
DAMAGE EVOLUTION IN INTERMETALLICS INCLUDING THE EFFECTS OF DAMAGE INTERACTIONS, PLASTICITY AND TENSILE STRAINS			Y 36 03/05/91 \$406,051	BOYCE 91-NA-175	
Univ of Arizona	Chandra				
ANISOTROPIC ELASTIC MATERIALS AND COMPOSITES WITH THE EFFECTS OF TEMPERATURE AND PIEZOELECTRICITY			Y 36 03/05/91 \$274,873	WU 91-NA-179	
Univ of Illinois	Finn				
THE GENERATION OF ORGANIZED STREAMWISE VORTICITY IN THE WAKE-WALL REGION			N 24 10/05/91 \$83,576	MCMICHAEL 91-NA-181	
Univ of Utah	Klewicky				
FAILING INTERFACES IN COMPOSITE MATERIALS			Y 36 06/06/91 \$489,011	BOYCE 91-NA-190	
Univ of Texas	Lischni				
ACROSTRUCTURE/PROPERTY RELATIONSHIPS FOR LIGHT WEIGHT COMPOSITES			Y 36 06/06/91 \$304,311	BOYCE 91-NA-192	
SSI International	Shockey				

REPORT DATE 07/10/91 PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 TITLE (CONT.) AIR ORCHESTRIC OF SCIENTIFIC RESEARCH
 INSTITUTION DIS STANT OF AEROSPAC SCIENCES

PAGE 3

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONLINEAR ACOUSTIC PROPERTIES IN SOLID ROCKS UNIV of Colorado	K. G. GARY	R 32 11/06/91 \$4,250,000	A BIRKAN 91-NA-199	\$250,000 01/10/91 \$250,000
ELASTICITY INTRINSIC MECHANICS AND ITS EFFECT ON COMPOSITE BEHAVIOR AT ROOM AND ELEVATED TEMPERATURES UNIV of Tennessee	Michael R.	H 36 19/06/91 \$307,901	BOYCE 91-NA-200	
A NEW METHOD IN THE THEORY AND APPLICATIONS AND TURBULENCE MIXING RUMEN UNIVERSITY	ILANOVICH	N 36 20/06/91 \$014,370	MCMICHAEL 91-NA-203	
HIGH RESOLUTION MEASUREMENTS OF MIXING AND COLLECTION PROPERTIES IN TURBULENT FLOWS UNIV of Michigan	Garner	H 36 21/06/91 \$232,292	A TISHKOFF 91-NA-204	\$77,966 01/10/91 \$232,392
SCALAR IMAGING VISCIMETRY STUDIES OF TURBULENT FLOW STRUCTURE AND DYNAMICS UNIV of Michigan	Werner J. A.	N 24 21/06/91 \$150,834	A MCMICHAEL 91-NA-205	\$83,169 01/10/91 \$156,838
DEVELOPMENT OF INTERACTIVE GLOBAL-LOCAL METHODS FOR MODELING AND ANALYSIS OF HETEROGENEOUS MEDIA Purdue University	C	N 36 27/06/91 \$278,500	BOYCE 91-NA-209	
DIRECT NUMERICAL SIMULATION OF COMPRESSIBLE TURBULENCE BOUNDARY LAYERS United Technologies, Inc	Aljan	N 24 30/04/91 \$238,220	D SAKELL 91-NA-148	
AFMUL GRAY 2 SUPPORT FOR HXCON Air Force Research Lab	Mary Ann	H 04 29/04/91 \$7,100	A SAKELL 91-NA-146	\$7,100 01/05/91 \$7,100
NUMERICAL INVESTIGATION OF SURFACE CURVATURE EFFECTS IN TURBULENCE McDonnell Douglas Research Lab	Linda	N 24 30/05/91 \$37,345	A SAKELL 91-NA-193	\$47,238 01/10/91 \$97,345

REPORT DATE: 07/19/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUL 91)
 ALL WORK DONE OF SCIENTIFIC DESIGN
 OF STUDY OF AEROSPACE FOR 1991

PAGE 4

TITLE (COUNT) INSTITUTION	RESEARCHER	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
REACTION RATE MEASUREMENTS FOR THE REACTION OF HYDROGEN AND OXYGEN Kozlov, Borisovskiy, A. A. et al.	John	N 24 25/04/91 \$339,130	D BOYCE 91-NA-144	\$4,000 01/07/91 \$4,000
THE THIRTEENTH INTERNATIONAL COLLOQUIUM ON DYNAMICS OF EXPLOSIONS AND REACTIVE SYSTEMS International Science Foundation	William	N 03 12/06/91 \$4,000	A TISHKOFF 91-NA-195	\$47,093 01/11/91 \$96,346
ADDITIVE TURBULENCE DECOMPOSITION OF THE INCOMPRESSIBLE AND COMPRESSIBLE FLUIDS: ANALYTICAL AND NUMERICAL STUDIES Univ of Kentucky	James	N 24 16/04/91 \$96,346	A SAKELL 91-NA-138	\$5,000 15/09/91 \$55,000
ATOMIC AND MOLECULAR PROPERTIES ACCOMPANYING INFORMATION AND STRUCTURE OF METAL-ORGANIC INTERFACES Washington State University	J. Thomas	N 24 11/06/91 \$113,069	A WU 91-NA-194	\$85,362 01/10/91 \$265,994
MECHANISMS AND CONSTITUTIVE MODELING OF GRANULAR MATERIALS IN PRESSURE REVERSAL AND CYCLIC LOADING Univ of California San Diego	Stavroulakis	N 36 12/04/91 \$361,394	BOYCE 91-NA-123	\$25,000 01/09/91 \$50,000
MECHANISMS, TRANSPORT PROPERTIES AND STATISTICAL PHYSICS OF GRANULAR MEDIA AND GEOMATERIALS Univ of California San Diego	Joe	N 36 25/06/91 \$265,994	A BOYCE 91-NA-206	\$25,000 01/09/91 \$50,000
IN-SITU STRUCTURE AND INTERFACE STUDIES OF POLYMER-CLAY COMPOSITES (PCC) University of Illinois at Urbana-Champaign	Toshifumi	N 24 04/06/91 \$50,000	A WU 91-NA-185	\$25,000 01/09/91 \$50,000
CHARACTERIZATION OF MASS-PERMEABILITY IN VORTICES Univ of Illinois at Urbana-Champaign	Yehia	N 24 14/05/91 \$171,729	D SAKELL 91-NA-169	
NUMERICAL DENSITY MEASUREMENTS WITH A LASER-INDUCED PLASMA CALIBRATION SYSTEM University of Illinois at Urbana-Champaign	Chokan	N 36 23/04/91 \$223,014	D SAKELL 91-NA-141	

FILE TITLE (CONT.) INSTITUTION	SYNOPSIS	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MICROSTRUCTURE AND MACROSCOPIC BEHAVIOR OF RANDOM HETEROGENEOUS MATERIALS North Carolina State University	Salvatore	N 36 25/04/91 \$348,245	BOYCE 91-NA-145	
THE USE OF ACTIVE SURFACE CHARGES FOR STRUCTURAL SHAPE CONTROL North Carolina State University	Gordon K	N 36 31/05/91 \$412,879	WU 91-NA-184	
STATIC AND FATIGUE DAMAGE IN HIGH TEMPERATURE COMPOSITES Pennsylvania Polytechnic Institute	George	N 36 15/04/91 \$397,436	BOYCE 91-NA-134	
CONTROL OF CURSTING EVENTS IN A TURBULENT BOUNDARY LAYER Univ of Notre Dame	Monahan	N 36 20/05/91 \$87,874	MCMICHAEL 91-NA-174	
AIRRAFT TRAINLESSES Pennsylvania State University	Domenic	N 12 07/05/91 \$179,135	A TISHKOFF 91-NA-161	\$179,135 15/08/91 \$179,135
THE ROLE OF DROPLET VAPOORIZATION IN THE INITIATION AND GROWTH OF COMBUSTION INSTABILITIES Pennsylvania State University	D	N 36 15/05/91 \$154,669	BIRKAN 91-NA-171	
DOMAIN PROCESSES IN FERROELECTRIC CERAMICS Pennsylvania State University	L Eric	N 24 23/05/91 \$139,350	A WU 91-NA-177	\$62,100 01/09/91 \$139,850
LIQUID MOOR COMBUSTION STABILITY USING COAXIAL INJECTORS Pennsylvania State University	Michael	N 15 13/06/91 \$60,000	A BIRKAN 91-NA-201	\$60,000 01/10/91 \$60,000
CONCEPT RESEARCH FOR ADVANCED AIRCRAFT ENGINE STRUCTURES AT TEXAS TECH UNIVERSITY, 1991-92 Texas A and M Research Foundation	Vance J	P 12 06/05/91 \$161,224	A BOYCE 91-NA-160	\$161,224 15/08/91 \$161,224

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT 21 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 6

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FAILURE ANALYSIS OF UNIDIRECTIONAL CARBON FIBRE COMPOSITES TESTED AT ELEVATED TEMPERATURES UNDER AXIAL STRESS CONDITIONS Oregon Graduate Center For Study & Reson	Kumosa	N 36 06/06/91 \$246,170	BOYCE 91-NA-191	
CHAOS-ENHANCED TRANSPORT AND AGGREGATION IN CHAOTIC FLOWS Northwestern University	Ottino	N 36 30/04/91 \$332,441	MCMICHAEL 91-NA-150	\$103,798 01/10/91 \$329,441
THREE-DIMENSIONAL CRACK GROWTH AND STABILITY WITH APPLICATION TO COMPOSITE MATERIALS AND THE GEOPHYSICAL ENVIRONMENT Northwestern University	Leon	N 36 15/05/91 \$310,033	BOYCE 91-NA-170	
ANALYSIS OF FINITE REYNOLDS NUMBER DYNAMIC STALL United Technologies Research Center	Barnett	N 36 01/04/91 \$195,000	FANT 91-NA-120	
INTERAGENCY PROPULSION COMMITTEE Office of Naval Research	Venuto	N 04 05/06/91 \$20,000	TISHKOFF 91-NA-187	\$20,000 01/06/91 \$20,000
PERTURBED SUPERSONIC TURBULENT BOUNDARY LAYERS Ohio State Univ Research Foundation	Samiy	N 24 23/04/91 \$128,756	SAKELL 91-NA-147	\$80,000 01/09/91 \$128,756
EXPERIMENTAL & THEORETICAL INVESTIGATIONS IN MANUFACTURED MATERIALS & COMPOSITES Michigan Technological University	Aifantis	N 36 16/05/91 \$499,023	A 80YCE 91-NA-172	\$134,335 15/09/91 \$420,663
A COMPUTATIONAL STUDY OF AIRFOILS AND WINGS WITH MOVABLE CONTROL SURFACES USING SOLUTION ADAPTIVE MESHES Univ of Cincinnati	Orkman	N 36 16/04/91 \$127,629	D SAKELL 91-NA-137	
RMS PROCEDURES FOR SHOCK-BOUNDARY LAYER AND INSTABILITY VISCOUS FLUID INTERACTIONS Univ of Cincinnati	Stability	N 36 14/05/91 \$223,917	O SAKELL 91-NA-168	

REPORT DATE 07/10/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 7

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FULLS COMBUSTION RESEARCH Princeton University	Glitsman Irvin	N 36 08/04/91 \$698,334	A TISHKOFF 91-NA-129	\$297,361 30/09/91 \$698,934
STUDIES OF HYPERSONIC BOUNDARY LAYER BEHAVIOR Princeton University	Salts 4	N 36 06/05/91 \$636,692	SAKELL 91-NA-155	
FUNDING FOR FOUR AIRCRAFT STUDENT TRAINERS FOR ACADEMIC YEAR 1991-1992 Princeton University	Law C	N 12 07/05/91 \$128,280	A TISHKOFF 91-NA-162	\$128,280 01/09/91 \$128,280
MESH GENERATION AND FLOW PREDICTION FOR COMPLEX GEOMETRIES Princeton University	Baker T J	N 30 10/06/91 \$296,723	D SAKELL 91-NA-190	
INTERFACE EFFECTS ON COMPOSITES CONTAINING ALIGNED FIBERS Michigan State University	Jasiuk Irons	N 36 09/04/91 \$335,149	WU 91-NA-131	
TAYLOR-LAYERS IN THE PLANE TURBULENT SHEAR LAYER Univ of Washington	Gowling David	N 24 10/04/91 \$195,989	MCMICHAEL 91-NA-132	
DETECTION OF CRACKS IN ROTATING SHAFTS - AN ANALYTICAL AND EXPERIMENTAL INVESTIGATION Virginia Polytechnic Inst & State Univ	Plaut Raymond	N 36 02/04/91 \$616,944	WU 91-NA-124	
REYNOLDS-AVERAGED AND FAVRE-AVERAGED TURBULENCE MEASUREMENTS IN A HIGH-SPEED, HIGH-REYNOLDS-NUMBER SHEAR FLOW Virginia Polytechnic Inst & State Univ	Seneta Joseph	N 36 20/05/91 \$324,453	SAKELL 91-NA-173	
PERFORMANCE IMPROVEMENT OF COMPOSITE AIRCRAFT WINGS THROUGH AEROMECHANIC TAILORING AND FODDER CONTROL Virginia Polytechnic Inst & State Univ	Malpovich Leonard	N 36 24/05/91 \$231,220	A WU 91-NA-179	\$78,940 01/09/91 \$281,220

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT C 1 AUG 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 8

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MICROMECHANICS OF THE PROPERTIES AND PERFORMANCE OF HIGH TEMPERATURE COMPOSITE MATERIAL SYSTEMS Virginia Polytechnic Inst & State Univ	Reifsnider	N 36 18/06/91 \$328,105	BOYCE 91-NA-197	
MECHANICS OF PERFORMANCE SIMULATION FOR HIGH TEMPERATURE COMPOSITE MATERIAL SYSTEMS Virginia Polytechnic Inst & State Univ	Reifsnider	N 36 18/06/91 \$328,105	BOYCE 91-NA-198	
POST-STALL CONTROL OF SWEEP WINGS Virginia Polytechnic Inst & State Univ	Telloni	N 36 25/06/91 \$257,938	FANT 91-NA-207	
ANISOTROPIC DAMAGE MECHANICS MODELING IN METAL MATRIX COMPOSITES Louisiana State University	Voyiadjis	N 12 05/04/91 \$66,000	BOYCE 91-NA-127	
DEVELOPMENT OF A TECHNIQUE TO DETERMINE THE MORPHOLOGY AND DYNAMICS OF AGGLOMERATES IN CHEMICALLY REACTING FLOWS Louisiana State University	Charalambopoulos	N 36 15/04/91 \$402,872	TISHKOFF 91-NA-135	
SMART ACOUSTICALLY ACTIVE SURFACES FOR FLOW SEPARATION CONTROL IN TURBOMACHINERY Univ of Mississippi	Sinha	N 36 28/05/91 \$110,000	A FANT 91-NA-180	\$25,000 01/09/91 \$110,000
THERMO-MECHANICAL ANALYSIS OF OXIDATION PROTECTED CARBON-CARBON COMPOSITES Materials Sciences Corp	Rosen	N 36 23/05/91 \$485,936	BOYCE 91-NA-176	
THERMO-MECHANICAL PROPERTIES OF CERAMIC COMPOSITES WITH VAPOR DEPOSITED MATRIX MATERIALS Materials Sciences Corp	Rosen	N 36 05/06/91 \$478,731	BOYCE 91-NA-198	
ELECTRICAL ENERGY TRANSFER IN AN ARCJET Texas Tech University	Quhair	N 36 09/05/91 \$236,423	W SIRKAN 91-NA-164	

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 9

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FOUNDATION FOR THE DIRECT AND TRANSFORM ELEMENT METHODS IN STRUCTURAL DYNAMICS AND CONTROL THEORY Photon Research Associates Inc.	Chun	N 24 27/06/91 \$361,143	WU 91-NA-210	
CAFRAPT MASSACHUSETTS INSTITUTE OF TECHNOLOGY		R 12 03/05/91 \$193,573	FANT 4 91-NA-153	\$198,573 01/09/91 \$198,573
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Edward	N 24 06/05/91 \$148,084	WU 91-NA-156	
CAPTURE OF INTERFACES IN ADVANCED COMPOSITE MATERIALS	Oral	N 24 06/05/91 \$86,227	WU 91-NA-157	
ACTUATORS AND SENSORS FOR INTELLIGENT STRUCTURES	Edward	N 20 13/06/91 \$99,998	BIRKAN A 91-NA-196	\$99,998 30/09/91 \$99,998
NUCLEAR ROCKET PLUME STUDIES	Daniel	N 36 27/06/91 \$553,313	BOYCE 91-NA-208	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Lorna	N 36 10/05/91 \$230,163	SAKELL A 91-NA-166	\$88,627 01/10/91 \$280,163
TRANSITION IN HYPERSONIC BOUNDARY LAYERS	Joel	N 36 13/05/91 \$274,925	MCMICHAEL A 91-NA-167	\$132,270 01/10/91 \$274,925
LARGE EDDY SIMULATION OF BACKWARD-FACING STEP FLOW WITH APPLICATION TO COAXIAL JET COMBUSTORS	John	N 17 30/05/91 \$118,673	MCMICHAEL A 91-NA-182	\$118,673 15/09/91 \$118,673
INVESTIGATION OF THE PHYSICS OF THE TURBULENT BOUNDARY LAYER FOCUSING ON VORTEX STRUCTURES	Aline			

REPORT DATE: 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AIRSPACE SCIENCES

PAGE 10

TITLE FILE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INVESTIGATION OF TURBULENCE EQUATIONS FOR TWO-DIMENSIONAL HYPERSONIC FLOW Stanford University	Chiodini	R 24 19/06/91 \$174,997	A SAKELL 91-NA-202	\$85,856 01/10/91 \$174,997
MEASUREMENTS OF STRAINS AT INTERIOR POINTS USING X-RAY Univ of Connecticut	Jordan	N 36 03/05/91 \$204,657	BOYCE 91-NA-152	
THREE-DIMENSIONAL LAMINAR HYPERVELOCITY FLOW WITH REACTION California Institute of Technology	Pullin	N 24 08/04/91 \$219,502	D SAKELL 91-NA-130	
OXIDATION PROTECTION OF CARBON-CARBON COMPOSITES California Institute of Technology	Kolawa	N 36 04/06/91 \$599,250	BOYCE 91-NA-186	
HIGH TEMPERATURE MECHANICAL BEHAVIOR OF FIBER REINFORCED CERAMIC COMPOSITES California Institute of Technology	Kneuss	N 36 05/06/91 \$453,130	BOYCE 91-NA-189	
ORIGINS OF IMPERFECTIONS IN COMPOSITE MATERIALS Johns Hopkins University	Chimentil	N 36 23/04/91 \$243,400	A WU 91-NA-143	\$77,100 01/09/91 \$243,400
FAST PARALLEL SPAM TOMOGRAPHY FOR TURBULENCE COMBUSTION DIAGNOSTICS Cornell University	Frederick	N 48 03/04/91 \$587,716	D TISHKOFF 91-NA-128	
TURBULENCE MODELLING Cornell University	Lumley	N 36 06/05/91 \$456,750	A MCMICHAEL 91-NA-154	\$144,844 01/10/91 \$456,750

REPORT DATE: 07/15/91

PROPOSAL STATUS: REPORT C 1 Apr 91 - 30 JUN 91
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 1

TITLE FIRM (CONTRACTOR) UNIVERSITY	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
JORDAN ATOM MATRIX CHEMISTRY Univ of Virginia	Andrews Lester	N 12 03/04/91 \$91,898	BURGGRAPH 91-NC-153	
LASER-CHEMISTRY WITH HIGH RESOLUTION Lehigh University	Lindler Daniel	N 12 11/04/91 \$63,455	BURGGRAPH 91-NC-158	
DEVELOPMENT OF PRACTICAL MO TECHNIQUES FOR DETECTION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS Univ of Florida	Jeffer Michael J.	N 12 11/04/91 \$129,609	HEDBERG 91-NC-159	
REACTIONS AND SPECTROSCOPY OF SELECTED VITAMINS Univ of Denver	Grando Robert	R 04 11/04/91 \$35,000	PERRAM 91-NC-160	\$35,000 01/07/91 \$35,000
TRANSDUCATION COULOMB ULTRAVIOLET SOL-GEL SILICA OPTICS Sci-Tech, Inc.	Wojcik Jean-Luc	N 24 15/04/91 \$499,935	LEE 91-NC-161	
NONLINEAR OPTICS IN SINGLE CRYSTAL WAVEGUIDES OF ORGANIC SECOND AND THIRD ORDER OPTICAL MATERIALS Auburn University	Phakur Mingol	N 12 21/05/91 \$72,579	LEE 91-NC-173	
STATIC HYDROGEN TRAPPED IN SOLID H ₂ Univ of Hawaii	James James	N 12 21/05/91 \$150,675	BURGGRAPH 91-NC-174	
MOLECULAR PRECURSOR ROUTE TO POLYAMIDES UNION CORP.	Kliverter Floyd	N 06 22/05/91 \$51,292	LEE 91-NC-175	\$51,292 01/09/91 \$51,292
PERMEABILITY IN MOLECULES Univ of Florida	Orlitt Rodney	N 12 23/05/91 \$48,760	BURGGRAPH 91-NC-179	\$48,760 01/01/92 \$48,760

REPORT DATE 07/11/91

PROPOSAL TITLE REPORT C 1 APP 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 2

TITLE TITLE (CONT.) SUBSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
METASTABILITY IN MOLECULES				
Univ of Florida	Godney	N 12 30/05/91 \$153,334	BURGGRAPH 91-NC-181	
ORGANIC AND INORGANIC ALLOY-AND STRUCTURES FOR LAS FILMS WITH ENHANCED WLD PROPERTIES				
Univ of Colorado	Joseph	N 12 03/06/91 \$130,107	LEE 91-NC-184	
PHOTOGENERATED HYDROGEN ATOMS FROM ALKALI METAL REACTIONS IN HYDROGEN CLUSTERS				
Univ of Iowa	Mark	N 12 05/06/91 \$100,587	BURGGRAPH 91-NC-189	
SPECTROSCOPIC STUDIES OF MATRIX-ISOLATED ATOMS, CLUSTERS AND IONS, POSSIBLE HIGH ENERGY SYSTEMS				
Univ of Florida	Martin	N 12 05/06/91 \$223,111	BURGGRAPH 91-NC-190	
BIO-MIMETIC ROUTES TO OPTICAL AND ELECTRONIC CERAMICS				
Univ of Arizona	Paul	N 12 13/06/91 \$73,533	HEDBERG 91-NC-193	
MULTI-INVESTIGATOR RESEARCH PROGRAM (MIRP) THE SCIENCE OF ULTRASTRUCTURAL MATERIALS				
Univ of Florida	Larry	N 12 12/06/91 \$337,038	ERSTFELD 91-NC-195	
MATRIX STABILIZATION OF NITROGEN SPECIES IN AMMONIUM PENTACHLORATE				
PAI Research Ltd.	Paul	N 12 16/06/91 \$99,668	BURGGRAPH 91-NC-198	
NON-LINEAR OPTICAL EFFECTS IN MOLECULES				
Univ of Florida	Godney	N 12 21/06/91 \$44,109	BURGGRAPH 91-NC-200	
ULTRASHORT PULSED LASER SPECIES IN TECHNOLOGY				
Univ of Illinois	Andrew	N 12 24/06/91 \$175,014	BURGGRAPH 91-NC-204	

REPORT DATE: 07/15/91

PROPOSAL STATUS: REPORT C 1 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DURHAM, NC 27706-1000

PAGE 3

TITLE (CONT.)	INVESTIGATOR	STATUS	PROGRAM MANAGER	INITIATE
CONSTITUTION		PROPOSAL #		START DATE
				TOT AMT
VIBRATIONAL ASSISTED TRANSMISSION LASER				
Physical Sciences Inc	David	BERMAN	91-NC-185	
THE DEVELOPMENT OF AN IMPROVED CUMULUS PARAMETERIZATION FOR				
MEGASCAL NUCLEAR WEATHER PREDICTION MODEL	William Lee	STOBIE	91-NC-164	
Atmospheric Infrared Signal - User Fac				
SYMPOSIUM ON POLYMERIC MATERIALS FOR PHOTOGRAPHIC AND OPTICAL				
APPLICATIONS	John Lund	LEE	91-NC-152	\$2,000
American Chemical Society				\$2,000
CAPT PARTICIPATION FOR OR ALZUR				
National Oceanic Atmospheric Admin	Wladimir	STOBIE	91-NC-170	\$5,000
High Contrast Organic Crystal Optical Modulator for Phase Array				
Antenna and Optical Signal Processing Applications	H.	LEE	91-NC-178	\$50,000
General Electric Co				\$824,500
NOVEL METALLOPHENOLIC POLYMERS FOR ELECTROCHROMIC AND				
ELECTROCHROMIC APPLICATIONS	Thomas	LEE	91-NC-197	\$59,996
Univ of Kentucky Research Foundation				\$59,996
ELECTRO-OPTICALLY ACTIVE STEERING USING NON-LINEAR ORGANIC MATERIALS				
LuChen Research Laboratories	R.	LEE	91-NC-154	\$59,996
PHOTORETICAL STUDY OF DYNAMICS OF COIL AND ROD POLYMER GELS				
Minnesota Mining and Manufacturing Co.	Kim	HEDBERG	91-NC-177	\$35,000
DEVELOPMENT OF CONTINUOUS VISUAL-CHEMICAL LABEL AMPLIFIERS AND				
AMPLIFIERS FOR THE ANALYSIS OF CHEMICAL AND BIOLOGICAL	James	PERRAM	91-NC-155	\$35,000
Amplified Laser Raman Spectroscopy				

REPORT DATE: 07/10/91

PROPOSAL STATUS: POST (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE (CONT.)
SUBSTITUTION

ENVIRONMENTAL

OPTICAL COMPUTATION AND OPTICAL SIGNAL PROCESSING

Link Dynamics Incorporated

J. J.

STRUCTURES OF HIGH TEMPERATURE SILICATE WELLS AND THEIR RELATION
TO PROPERTIES. PHASE SEPARATION AND CRYSTALLIZATION OF GLASSES
PENNsylvania State University

RANGE RESOLVED LASER DOPPLER VELOCIMETRY USING A CW LASER SOURCE
AND PSEUDO RANDOM CODE MODULATION FOR LARGE RESOLUTION
Judson Graduate Center for Study & Research

J. F.

EXCITED STATE CHEMISTRY OF C_6H_6 AND NCI

Kansas State University

D.

EXPERIMENTAL AND THEORETICAL INVESTIGATION OF SURFACE CHEMISTRY
INDUCED BY DIRECT AND INDIRECT ELECTRONIC EXCITATION
Northwestern University

Peter

1991 MRS SYMPOSIUM ON THE ELECTRICAL, OPTICAL, AND MAGNETIC
PROPERTIES OF ORGANIC SOLID STATE MATERIALS
Materials Research Society

A.

PHOTOCHEMICAL SYNTHESIS AND CHARACTERIZATION OF H_2

Rockwell International Science Center

T.

FORMATION AND IDENTIFICATION OF HIGH ENERGY LINEAR AND CYCLIC
DIENES (4-3) POLYMERS
Air Research Institute

Alan

CHARACTERIZATION AND MODELING OF GRANULAR CONDUCTING POLYMERS
Colorado State University

Mark

PAGE 4

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 06 22/05/91 \$49,993	A LEE 91-NC-176	\$49,993 01/09/91 \$49,993
12 13/06/91 \$130,734	D ERSTFELD 91-NC-196	
N 12 02/04/91 \$97,462	STOBIE 91-NC-151	
N 12 30/04/91 \$107,000	GERMAN 91-NC-166	
R 12 11/06/91 \$100,000	A BURGGRAF 91-NC-194	\$100,000 01/08/91 \$100,000
N 09 06/05/91 \$6,000	A LEE 91-NC-168	\$6,000 01/08/91 \$6,000
N 12 05/06/91 \$81,530	BURGGRAF 91-NC-188	
N 12 05/06/91 \$101,389	BURGGRAF 91-NC-192	
N 12 30/05/91 \$100,000	D LEE 91-NC-182	

REPORT DATE: 07/11/91

PROPOSAL STATUS REPORT (1 JUL 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIR OFFICE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 5

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STRUCTURES AND REACTIONS OF COMPOSITIONALLY MODIFIED POLYMERS Oak Ridge National Lab	McKee Rodney	N 12 21/05/91 \$25,000	A ERSTFELD 91-NC-133	\$12,500 01/07/91 \$12,500
QUANTUM MECHANICAL INVESTIGATION OF POLYMER PROPERTIES USING A COMBINATION OF FIRST PRINCIPLE QUANTUM CHEMICAL AND SOLID STATE Investigation of Polymer-Membrane, Liquid	Jones	N 12 19/04/91 \$70,063	BURGGRAPH 91-NC-162	
ANALYSIS OF STRETCH-REPT DATA Univ of Washington	Loeb	N 12 11/04/91 \$29,771	STOBIE 91-NC-157	
ADVANCED METHODS FOR ATMOSPHERIC MODELING Holliston Environmental and Research Co	Laure	N 24 30/04/91 \$463,705	STOBIE 91-NC-165	
MOLECULAR DYNAMICS SIMULATION OF STRUCTURE, DYNAMICS AND TRAPPING IN CONDENSED PHASE HIGH DENSITY MATERIALS Louisiana State University	Rajiv	N 12 15/05/91 \$170,281	GERMAN 91-NC-171	
DEVELOPMENT OF MULTIPERFORMANCE MATERIALS Michigan Molecular Institute	Donald	N 12 11/04/91 \$199,180	A LEE 91-NC-156	\$100,000 01/08/91 \$300,000
AN INITIO DETERMINATION OF FMO- AND FMO-DOY POTENTIALS OF THE LUMO/HOMO SYSTEM AND MOLECULAR DYNAMICS SIMULATION OF THE ... NASA - Ames Research Center	Minifree	N 12 10/05/91 \$35,000	BURGGRAPH 91-NC-172	
FLUORENE-CONTAINING POLYMERS FOR NONLINEAR OPTICS State University of New York	Kenneth	N 12 28/06/91 \$193,330	LEE 91-NC-203	
ELECTRICAL CONDUCTIVITY OF LOW IMPLANTED LIGAND AND ... Polymer Ohio State University	Arthur	N 12 27/06/91 \$201,518	LEE 91-NC-202	

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
OFFICE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 6

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DEFLUORINATED ORGANOMETALLIC AND ORGANOMETALLIC ADITIVES. PREPARATION OF CERAMICS FOR EL CERAMIC PACKAGING Massachusetts Institute of Technology	Dieter	N 12 20/06/91 \$150,000	HEDBERG 91-NC-199	
COLLOID AND INTERFACE CHEMISTRY ASPECTS OF CHEMICALS Clarkson University	Maticovic	N 12 13/05/91 \$199,427	ERSTFELD 91-NC-169	
DEVELOPING AND TESTING A MECHANICAL SENSITIZATION MODEL OF COMPOSITE EXPLOSIVES New Mexico Institute of Mining and Tech	Pharis	N 12 04/06/91 \$41,113	BERMAN 91-NC-186	
POLYMERIZATION OF CYCLOHEXADIENE DERIVATIVES: METHODS TO POLY(CYCLOHEXYL)ENED AND POLY-1,4-DIOL MATERIALS California Institute of Technology	Rebert	R 12 01/05/91 \$100,030	A HEDBERG 91-NC-167	\$100,030 01/08/91 \$100,030
SPECTROSCOPY OF METAL-HYDROGEN CLUSTERS California Institute of Technology	Witten	N 12 05/06/91 \$345,374	BURGGRAB 91-NC-187	
STUDY OF DRYING SHRINKAGE IN SILICA GELS Clemson University	Jurstrand	N 12 19/04/91 \$107,431	ERSTFELD 91-NC-163	
SYNTHESIS AND REACTIVITY OF EARLY TRANSITION METAL AMIDES, IMIDES AND MOLECULAR AND SOLID STATE NITRIDE CLUSTERS Cornell University	Peter	N 12 10/05/91 \$118,002	0 HEDBERG 91-NC-180	
EXPERIMENTAL STUDIES OF METALLIC HYDROGEN AT VERY HIGH PRESSURE Harvard University	Isaac	N 12 05/06/91 \$213,384	BURGGRAB 91-NC-191	
PHOTOLYSIS AND OPTICAL SPECTROSCOPY OF TRANSDUCED AND VIBRATIONAL ACTIVITY (ON) OF POLYMER AND POLYMERIZATION Cornell University	Willson	N 12 27/06/91 \$145,000	ERSTFELD 91-NC-201	

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 1

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INVESTIGATION OF FRACTURE MECHANISMS IN FERROELASTIC CERAMICS Univ of Utah	Virkar Anil	N 36 08/04/91 \$468,223	D SCHIOLER 91-NE-121	
FRACTURE MECHANICS AND QUANTITATIVE FRACTOGRAPHY APPLIED TO HIGH TEMPERATURE FAILURE OF CERAMIC MATERIALS Univ of Florida	Mecholsky, Jr J	N 36 08/04/91 \$300,000	D SCHIOLER 91-NE-125	
SOL-GEL PROCESSING OF MULTI-DIMENSIONALLY REINFORCED CERAMIC MATRIX CERAMIC MATRIX COMPOSITES Univ of Delaware	Chou Tsu-Mei	N 36 09/04/91 \$388,677	D SCHIOLER 91-NE-127	
CREEP DAMAGE MECHANISMS IN COATED-FIBER GLASS-CERAMIC COMPOSITES Brown University	Nutt Steven	N 36 22/04/91 \$192,495	D SCHIOLER 91-NE-139	
STUDY OF INFORMATION PROCESSING AND INTERCONNECT ARCHITECTURES BASED ON WAVELENGTH-SWITCHING DEVICES Univ of Colorado	Sauer Jon	N 12 06/05/91 \$41,322	A CRAIG 91-NE-145	\$41,322 01/09/91 \$41,322
FIBER MATRIX INTERACTIONS IN CERAMIC COMPOSITES SRI International	Johnson Sylvia	N 36 07/05/91 \$593,568	D SCHIOLER 91-NE-148	
ELECTRONIC STRUCTURE CALCULATIONS OF HYBRID MAGNETIC-SEMICONDUCTOR INTERFACES Univ of Missouri	Satpathy Sashi	N 36 09/05/91 \$146,599	POMRENKE 91-NE-151	
HIGH TEMPERATURE RHEOLOGY OF CONTINUOUS FIBER-REINFORCED CERAMIC MATRIX Univ of Wisconsin	Cooper Reid	N 36 13/05/91 \$393,900	D SCHIOLER 91-NE-152	
SYNTHESIS OF NANOCRYSTALLINE VO-ALUMINIDES BY LASER ABLATION TECHNIQUE Univ of Illinois	Misunder J	N 36 14/05/91 \$495,380	A ROSENSTEIN 91-NE-154	\$160,839 01/11/91 \$2,025,380

REPORT DATE 07/16/91
 PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 AIR-CORPORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 2

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SUPERLATTICE TUNNELING TRANSISTORS AND CIRCUITS Yale University	Reed	N 36 16/05/91 \$625,647	WITT 91-NE-159	
SELF-ORGANIZING PHOTOREFRACTIVE FIBER OPTIC DEMULTIPLEXERS Univ of Colorado	Anderson	N 03 20/05/91 \$20,812	A CRAIG 91-NE-164	\$20,812 01/06/91 \$20,812
INVESTIGATION OF THE HEAT EXCHANGE IN A REGENERATIVE HEAT EXCHANGER FOR AN ORIFICE PULSE-TULSE REFRIGERATOR Univ of Colorado	Timmerhaus Klaus	N 12 23/05/91 \$51,129	D WEINSTOCK 91-NE-169	
THE CHARGING EFFECT IN HIGH TCC SUPERCONDUCTING THIN FILMS Univ of Rochester	Sonolowski Roman	N 24 23/05/91 \$175,000	A WEINSTOCK 91-NE-170	\$90,000 01/10/91 \$175,000
SCIDGCE'G ALLOYS FOR OPTOELECTRONIC DEVICES Univ of Delaware	Kolodzy James	N 36 23/05/91 \$54,375	A POMRENKE 91-NE-172	\$26,690 01/09/91 \$54,375
1991 INTERNATIONAL SEMICONDUCTOR DEVICE RESEARCH SYMPOSIUM (ISDRS-91) Univ of Virginia	Shur Michael	N 07 05/06/91 \$5,000	POMRENKE 91-NE-179	
SEMICONDUCTOR DEVICES-LOADED AND CONFORMAL MILLIMETER WAVE DIFFRACTIVE GRATING Purdue University	Webb Kevin	N 36 11/06/91 \$365,990	WITT 91-NE-182	
MOLECULAR BEAM EPITAXY (MBE) GROWTH OF NOVEL SEMICONDUCTOR HETEROSTRUCTURES FOR NONLINEAR OPTICS Univ of Arizona	Khitrava Galina	N 36 11/06/91 \$251,265	POMRENKE 91-NE-183	
DEVELOPMENT OF SI LIGHT EMITTING TECHNOLOGY BASED ON SI QUANTUM WIRES Univ of Texas	Kuang Diao-Lee	N 25 15/06/91 \$199,988	A POMRENKE 91-NE-188	\$99,994 15/09/91 \$199,988

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 3

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HIGH-TEMPERATURE STABILITY OF MARE-GROWN MULTILAYER CERAMIC COMPOSITES Univ of Tennessee	Walker Frederick	N 36 25/06/91 \$397,464	SCHIOLER 91-NE-191	
INTERFACES IN COMPOSITES Univ of Maryland	Arsenault Richard	N 36 26/06/91 \$508,255	SCHIOLER 91-NE-192	
SUPERCONDUCTIVE ELECTRONIC DEVICES USING FLUX QUANTA Univ of Wisconsin	Norman James	N 36 26/06/91 \$274,000	A WEINSTOCK 91-NE-199	\$124,000 30/09/91 \$14,000
STATISTICAL LEARNING THEORY AND ALGORITHMS Yale University	Moody John	N 36 26/06/91 \$798,751	SUDDARTH 91-NE-203	
OPTICALLY POWERED, OPTOELECTRONIC SPATIAL LIGHT MODULATORS Univ of Southern California	Forrest Stephen	N 36 12/04/91 \$485,813	W CRAIG 91-NE-131	
THE DYNAMIC LINK ARCHITECTURE, IMPLEMENTED AS SY . . . OF COUPLED OSCILLATORS Univ of Southern California	Malsburg Christoph	N 36 30/05/91 \$393,285	SUDDARTH 91-NE-173	
PHOTOREFLECTANCE FOR THE IN-SITU STUDY AND CHARACTERIZATION OF SEMICONDUCTOR GROWTH/PROCESSING Brooklyn College of Cuny	Pollak Fred	N 36 16/04/91 \$431,424	POMRENKE 91-NE-134	
ATOMIC STRUCTURE, BONDING AND PROPERTIES OF CERAMICS American Ceramic Society	Holbrook W	N 12 06/05/91 \$8,395	A SCHIOLER 91-NE-146	\$8,395 01/09/91 \$8,395
EFFECTS OF MATRIX AND INTERFACE STRUCTURES ON THE MECHANICAL PROPERTIES OF CARBON/CARBON COMPOSITES Univ of California	Sneek J	N 36 08/04/91 \$526,365	O SCHIOLER 91-NE-126	

REPORT DATE 07/16/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 4

TITLE (CONT.)
INSTITUTION

ELEVATED-TEMPERATURE CYCLIC FATIGUE BEHAVIOR OF ADVANCED
CERAMIC-MATRIX COMPOSITES
Univ of California

INVESTIGATOR
Ritchie Robert

MICROMECHANICS AND MORPHOLOGY OF CREEP DEFORMATION OF GRAPHITIZED
CARBON FIBERS
Univ of California

INVESTIGATOR
Sines G

HIGH TC SUPERCONDUCTIVITY - PHYSICS AND DEVICES

Univ of California

Dynes Robert

OPTOELECTRONICS BASED ON SiGe/Si HETEROSTRUCTURES

Univ of California

Wang K

MATRIX AND INTERFACE DEFORMATION IN HIGH TEMPERATURE
INTERMETALLIC COMPOUNDS AND COMPOSITES
Univ of California, San Diego

Asaro Robert

SiGe/Si HETEROSTRUCTURES FOR IR AND OPTO-ELECTRONIC DEVICE
APPLICATIONS

Hughes Research Laboratories

Croke Edward

NEW REAGENTS FOR CVD AND CVI OF CARBON CONTAINING BORON AND OTHER
OXIDATION INHIBITORS

Georgia Tech Research Corporation

Lackey W

DISPERSED PHASE CERAMIC COMPOSITE COATING BY CVD

Georgia Tech Research Corporation

Lackey W

THE COMPLEXITY OF COMPUTATION, LEARNING, AND RELIABILITY IN NEURAL
NETWORKS

Univ of North Texas

Pirbhary Ian

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 36 23/04/91 \$617,759	D SCHIOLER 91-NE-141	
N 36 06/05/91 \$3,252,043	D SCHIOLER 91-NE-147	
N 36 26/06/91 \$675,000	A WEINSTOCK 91-NE-195	\$225,000 15/10/91 \$675,000
R 36 26/06/91 \$551,000	WITT 91-NE-201	
N 36 03/04/91 \$387,934	A ROSENSTEIN 91-NE-119	\$122,934 01/08/91 \$387,934
N 36 05/06/91 \$291,489	POMRENKE 91-NE-180	
N 36 22/04/91 \$521,840	A SCHIOLER 91-NE-140	\$133,200 01/10/91 \$414,888
N 36 29/04/91 \$521,736	D SCHIOLER 91-NE-143	
N 36 26/06/91 \$270,501	UDDARTH 91-NE-194	

REPORT DATE: 07/10/91

PROPOSAL STATUS: REPORT C 1 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 5

TITLE (CONT.) INSTITUTION	TITLE	INITIATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CHEMICAL AND MECHANICAL MANIPULATION OF PASSIVATION AND PASSIVATION LAYERS IN ULTRA-HIGH Purity POLYCRYSTALLINE SILICON North Carolina State University	Arnold	0	14/05/91 \$1,322,802	POMRENKE 91-NE-153	
OPTICAL GROWTH OF GALLIUM ARSENIDE AND GERMANIUM ON SILICON AND SILICON-ON-INSULATOR North Carolina State University	Kucharski	36	16/05/91 \$397,172	POMRENKE 91-NE-158	
SCIENCE AND TECHNOLOGY OF ALTERNATING CYCLIC AC STRUCTURAL AREA POSITION OF METALS AND SEMICONDUCTORS North Carolina State University	Arnold	36	23/05/91 \$959,230	WITT 91-NE-171	
APL GROWTH AND CHARACTERIZATION OF SIGI FOR OPTOELECTRONIC APPLICATIONS Naval Research Laboratory	Phillips	36	12/06/91 \$106,000	POMRENKE 91-NE-187	\$33,000 01/09/91 \$106,000
ELECTRICALLY-ADDRESSABLE POLYMER-BASED SPATIAL LIGHT MODULATOR Opton Systems Inc	Lin	36	23/05/91 \$399,395	CRAIG 91-NE-167	
NUMERICAL SIMULATION OF MOCVD IN MICROELECTRONICS MATERIALS PROCESSING Scientific Research Associates Inc	M	36	11/06/91 \$296,453	POMRENKE 91-NE-184	
QUANTUM DEVICES AND STRUCTURES Scientific Research Associates, Inc.	Harold	24	09/05/91 \$499,370	WITT 91-NE-150	
MATERIALS RESEARCH CENTER Pomona Polytechnic Institute	Robert	24	16/05/91 \$5,000,000	ROSENSTEIN 91-NE-162	
AN INVESTIGATION OF GCD - A NEW MATERIAL WITH H. GRAPHITE STRUCTURE Pennsylvania State University	Peter	36	03/04/91 \$299,385	A SCHIOLER 91-NE-124	\$135,246 01/10/91 \$415,089

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DISCREET OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 6

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MATERIAL RESEARCH CENTER		N 24 16/05/91 \$5,000,000	ROSENSTEIN 91-NE-163	
FORD A and M Research Foundation	Abraham			
QUANTUM MECHANICAL APPROACH TO UNDERSTANDING OF MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF THERMOPLASTICS	Abraham	N 36 13/04/91 \$470,527	A ROSENSTEIN 91-NE-138	\$148,580 01/10/91 \$456,574
Northwestern University	A			
TAILORED INTERFACES FOR METAL-MATRIX COMPOSITES-SEMICONDUCTOR APPLICATIONS	Morris	P 12 29/04/91 \$133,125	A ROSENSTEIN 91-NE-142	\$133,125 01/10/91 \$133,125
Northwestern University				
MECHANICS AND MECHANISM OF CRACK GROWTH IN COMPOSITES AND CERAMICS	Shankar	N 36 09/04/91 \$294,360	D SCHIOLER 91-NE-123	
Univ of Massachusetts				
MATERIALS CENTER		N 24 16/05/91 \$5,000,000	ROSENSTEIN 91-NE-161	
Univ of Pittsburgh	Fred			
STUDY OF CREEP CRACK NUCLEATION AND GROWTH IN CERAMICS AND CERAMIC MATRIX COMPOSITES	Pao	N 36 09/04/91 \$419,945	D SCHIOLER 91-NE-122	
Southwest Research Institute	Richard			
1985 MEETING ON MATERIALS FOR OPTICAL INFORMATION PROCESSING		N 12 12/04/91 \$5,000	D CRAIG 91-NE-130	
Materials Research Society	John			
THIN FILMS: STRESSES AND MECHANICAL PROPERTIES III		N 12 13/04/91 \$2,500	POMRENKE 91-NE-137	
Materials Research Society	John			
ADVANCED III-V COMPOUND SEMICONDUCTOR GROWTH, PROCESSING AND DEVICE		N 12 20/04/91 \$2,000	POMRENKE 91-NE-144	
Materials Research Society	John			

REPORT DATE 07/1/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 7

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TRANSFORMATION TIGHTENING OF CERAMICS Rockwell International, Science Center	David	R 36 03/05/91 \$593,970	A SCHIOLER 91-NE-149	\$135,518 15/01/92 \$599,970
MECHANISMS OF QUASI-BRITTLE FAILURE IN ALUMINA AND OTHER ILLIC COMPOUNDS Univ of Pennsylvania	David	N 26 11/06/91 \$451,913	ROSENSTEIN 91-NE-186	
EVOLUTION AND LEARNING IN NEURAL NETWORKS WITH FINITE WEIGHTS Univ of Pennsylvania	Santosh	N 36 26/06/91 \$127,786	SUODARTH 91-NE-202	
JAPAN-U.S. CONFERENCE ON COMPOSITE MATERIALS Virginia Polytechnic Inst., State Univ	K	N 12 12/04/91 \$5,000	A SCHIOLER 91-NE-129	\$5,000 01/09/91 \$5,000
HIGH SENSITIVITY GMS EPILAYERS BY OXYGEN COPING Carnegie-Mellon University	Mark	N 24 14/05/91 \$34,267	A POMRENKE 91-NE-156	\$18,309 15/08/91 \$34,267
DEVELOPMENT OF GERMANIUM-SILICON JUNCTION TECHNOLOGY Carnegie-Mellon University	J	N 36 26/06/91 \$419,909	POMRENKE 91-NE-193	
THE USE OF SELECTIVE AREA GROWTH FOR THE REDUCTION OF THERMAL DEGRADATION DEFECTS IN 4 TERNARY Yttrium Research Center	David	N 24 12/04/91 \$195,842	A MITT 91-NE-132	\$20,000 01/08/91 \$195,842
MOLECULE-ELECTRONICS State University of New York	Konstantin	N 36 13/06/91 \$950,000	A WEINSTOCK 91-NE-190	\$50,000 30/09/91 \$950,000
SUPPORT OF A POSTGRADUATE STUDENT FROM STONY BROOK AT ALL COMPARISON State University of New York	Michael	N 24 26/06/91 \$40,000	WEINSTOCK 91-NE-196	

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DISSEMINATION OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 8

FILE (CONT.) INSTITUTION	PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DISSEMINATION OF ELECTRONIC AND MATERIAL SCIENCES	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
1991 GORDON RESEARCH CONFERENCE IN CORROSION (HIGH TEMPERATURE OXIDATION) Gordon Research Conferences Inc	INVESTIGATION Cruickshank Alexander	N 12 17/04/91 \$3,000	D SCHIOLER 91-NE-135	
TENSILE STUDY OF SINGLE-CRYSTAL TITANIUM LICO TRIALUMINIDE ALC601(C25)MWC Martin Marietta Corporation	Kumar Kumar	N 12 17/04/91 \$52,066	A ROSENSTEIN 91-NE-136	\$52,066 01/09/91 \$52,066
II-VI/III-V HETEROSTRUCTURES Gordon Research Foundation	Gordon Gordon	N 36 30/05/91 \$223,000	POMRENKE 91-NE-176	
INVESTIGATIONS OF YBCO/CUO/MG MATRIALS WITH A AIR-ROOM-TEMPERATURE RESISTIVITY TRANSITIONS Wayne State University	Lowell Lowell	N 36 09/04/91 \$223,465	A WEINSTOCK 91-NE-128	\$63,465 15/06/91 \$223,465
OPTICAL DATA STORAGE AND PROCESSING BY PHOTO -CHO Wayne State University	Myung Myung	N 12 15/05/91 \$25,000	A CRAIG 91-NE-157	\$25,000 01/06/91 \$25,000
FOUR-WAVE MIXING IN INGaAs/AlAs MULTIPLE QUANTUM WELLS WITH APPLICATIONS TO OPTICAL SWITCHING DEVICES AND SOLITON GENERATION Wayne State University	Yoon Yoon	N 03 20/05/91 \$25,000	A CRAIG 91-NE-165	\$25,000 01/06/91 \$25,000
STUDY OF PRIMITIVE MECHANISMS OF INITIAL GROWTH OF (GaIn)Sb(1-x) USING AN ACCURATE QUANTUM MECHANICAL TOTAL ENERGY CALCULATION Ohio State University	Furukawa Furukawa	N 36 14/05/91 \$280,955	D MITT 91-NE-155	
CHARACTERIZATION OF RARE-EARTH DOPED III-V SEMICONDUCTORS Air Force Institute of Technology	Yoon Yoon	N 12 30/05/91 \$13,737	A POMRENKE 91-NE-175	\$15,106 15/09/91 \$15,106
DEVELOPMENT OF A HIGH-RESOLUTION MAGNETIC LOGIC MEMORY OF LA OF DEAMET JLAS Institute of Technology	Yoon Yoon	N 12 15/04/91 \$248,370	A MITT 91-NE-133	\$0 01/08/91 \$248,870

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DEPARTMENT OF L. CLAWIC AND MATERIAL SCIENCES

PAGE 9

TITLE (CONT.) ABSTRACT	PIV CITATION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STUDY OF QUANTUM MECHANICAL EFFECTS IN FILM-PI-COMPOUNDS SEMICONDUCTING NANOSTRUCTURES Massachusetts Institute of Technology	Limn	N 36 05/06/91 \$675,400	A WITT 91-NE-181	\$175,000 01/11/91 \$560,000
DEVELOPMENT OF NEW NANOSTRUCTURED COMPOSITE MATERIALS Clarkson University	Limn	N 36 03/04/91 \$242,157	POMRENKE 91-NE-120	
LOW TEMPERATURE DEFORMATION PROCESSES & STRENGTHENING MECHANISMS IN SINGLE CRYSTALS OF NEAR- α TITANIUM-ALLOYED ALLOYS Stanford University	William	N 36 20/05/91 \$475,000	A ROSENSTEIN 91-NE-174	\$155,000 01/12/91 \$475,000
OPTICAL INTERCONNECT RESEARCH Stanford University	Joseph	S 24 30/05/91 \$327,570	CRAIG 91-NE-177	
ADVANCED THIN-FILM DEPOSITION AND PHYSICAL PROPERTIES OF HIGH-TEMPERATURE AND HIGH-NOVEL SUPERCONDUCTING MATERIALS Stanford University	Malcolm	N 36 16/06/91 \$1,425,000	A WEINSTOCK 91-NE-189	\$500,000 01/10/91 \$1,425,000
METHODS OF ALTERING THE SURVIVABILITY OF SEMICONDUCTOR COMPOUNDS Univ of Connecticut	J	N 36 23/05/91 \$198,446	POMRENKE 91-NE-168	
OSCILLATIONS AND NEURAL SYSTEMS California Institute of Technology	Limn	N 36 22/05/91 \$404,900	A SUDDARTH 91-NE-166	\$100,300 01/09/91 \$404,900
TEMPERATURE-RESOLVED STUDIES OF HIGH-TEMPERATURE OSCILLATIONS IN COMPOUNDS Univ. State University	Limn	N 36 26/06/91 \$463,872	WITT 91-NE-197	
TEMPERATURE-RESOLVED STUDIES OF HIGH-TEMPERATURE OSCILLATIONS IN COMPOUNDS Univ. State University	Limn	N 36 26/06/91 \$463,872	WITT 91-NE-197	

REPORT DAF. 97/13/11

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DISCREET OF L CHRONIC AND MATERIAL SCIENCES

PAGE 10

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIAL START DATE TOT AMT
CENTER FOR RESEARCH IN NEW MATERIALS Cornell University	Joseph	N 24 16/05/91 \$5,000,000	ROSENSTEIN 91-NE-160	
SEVENTH INTERNATIONAL CONFERENCE ON PHONON SCATTERING IN CONDENSED MATTER Cornell University	Joseph	N 12 03/06/91 \$42,015	POMRENKE 91-NE-178	
IN-SITU ELECTRON AND OPTICAL SPECTROSCOPIES OF TRANSLATIONAL AND VIBRATIONAL ACTIVATION OF BOND BREAKING & FORMATION ON SEMICONDUCTORS Cornell University	Wilson	N 36 26/06/91 \$450,000	POMRENKE 91-NE-198	

REPORT DATE: 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DETERMINATION OF RESEARCH PROJECTS

PAGE 1

TITLE (CONT.) SUBSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE 7TH INTERNATIONAL CONFERENCE ON PARTICIPATIONS IN AND OUT OF THE 2 PHASES - ADVANCED IN PARTICIPATIONS IN EACH PHASE Univ of Alabama	J. Patton	N 06 01/04/91 \$15,000	A CERVENY 91-NL-079	\$15,000 01/06/91 \$15,000
VALUATION OF THE EFFECTS OF HYPERBARIC OXYGEN THERAPY ON THE HEAL ING POTENTIAL IN HUMAN SUBJECTS Thermo-Science, Inc	Slide John	N 06 04/04/91 \$5,500	A CERVENY 91-NL-083	\$6,500 01/04/91 \$6,500
HYPERBARIC OXYGEN THERAPY IN THE MANAGEMENT OF PARTIAL AN ORBITAL IN SUBJECTS WITH INJURIES Univ of Chicago	Lawrence	N 12 05/04/91 \$16,880	A CERVENY 91-NL-084	\$16,880 05/07/91 \$16,880
PHOTONIC AND EXPERIMENTAL STUDIES OF AUDITORY PROCESSING Univ of Maryland	Shimada	R 36 05/04/91 \$333,506	A HADDAD 91-NL-085	\$84,901 01/10/91 \$84,901
INTERMEDIATE LEVELS OF VISUAL PROCESSING Harvard College	Makayama Ken	N 36 11/04/91 \$628,367	A HADDAD 91-NL-090	\$201,037 01/10/91 \$628,368
EFFECT OF A SPHERICAL-RELATED AUXILIARY OPTICAL SIGNAL ON SP-CT PERS Univ of Virginia	Theodoridis George	N 36 23/04/91 \$301,760	A HADDAD 91-NL-092	\$201,037 01/10/91 \$628,368
PERFORMANCE AND DEPRESSION IN THE DENTATE GYRUS Univ of Texas	John G. Bennett	N 36 23/04/91 \$219,714	A HADDAD 91-NL-093	\$201,037 01/10/91 \$628,368
CUMULATIVE EFFECT OF REPEATED BIRTH ORAL TUGAWIA Univ of Alabama	Levey James	R 06 25/04/91 \$30,000	A CERVENY 91-NL-095	\$30,000 15/06/91 \$30,000

REPORT DATE: 07/15/91
 PROPOSAL STATUS: POST (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIR OFFICE OF LIFE SCIENCES

PAGE 2

TITLE (FILL IN) INSTITUTION	PIVOTAL STATUS POST (1 APR 91 - 30 JUN 91)	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE NEW IN VIVO FLUORESCENCE MECHANISM ASSAY FOR THE STUDY OF QUANTITATIVE TOXICITY Purdue University	THY SELECTION Snell Terry	CERVENY 91-NL-111	N 36 03/06/91 \$301,314
STUDIES OF THE GLAVAGE OF HALOGENATED CMT CHOLBY CATECHOL 1,2-DI-OXYGENASES (HYMEN) Univ of Colorado	Copy Shelley	CERVENY 91-NL-112	N 36 03/06/91 \$327,720
CUMULATIVE EFFECT OF REPEATED PULP CORTICAL ISCHEMIA Univ of Alabama	Holmes, Jr James	CERVENY 91-NL-113	N 24 03/06/91 \$252,032
ADAPTING THE DYNAMICS OF MENTAL WORKLOAD AND PILOT PERFORMANCE IN ADVANCED AIRCRAFT Research Technology, Inc.	House William	HADDAD 91-NL-087	N 06 09/04/91 \$50,000
SYNAPTIC PLASTICITY: NEURAL AND MOLECULAR APPROACHES Univ of Southern California	Indry Michel	HADDAD 91-NL-120	N 12 17/06/91 \$10,000
VISUAL PROCESSING OF SUBJECT VELOCITY AND ACCELERATION Smith-Kettlewell Eye Research Foundation	McKee Suzanne	HADDAD 91-NL-091	N 26 23/04/91 \$550,385
MULTIDIMENSIONAL INFORMATION COMINATION IN VISUAL PERCEPTION Univ of California	Wickens Thomas	HADDAD 91-NL-086	N 26 03/04/91 \$411,195
TOXIC METAL METABOLISM AND RESISTANCE MECHANISMS IN THE SOIL BACTERIUM, BACILLUS SUBTILIS Univ of California	Leighton Terrence	CERVENY 91-NL-110	N 36 03/06/91 \$423,807
GROUND REACTION AND CONNECTIVE TISSUE METABOLISM - THE ROLE OF HYPOXIC ANOXIC TISSUE Univ of California San Diego	Adams Elvin	HADDAD 91-NL-081	N 12 03/04/91 \$14,528

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REPORT DATE 07/15/91

PROPOSAL STATUS REPORT C 1 APR 91 - 30 JUL 91
 ALL PROPOSALS OFFICE OF SCIENTIFIC RES ARCH
 OF OPERAT OF LIFE SCIENCES

PAGE 3

TITLE (CONT.)	INVESTIGATOR	TYPES/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ADAPTATION				
MECHANISMS OF CYANIDE ACCUMULATION IN P. DUCHENNEA PACTARIA	Conrad	N 36 03/06/91 \$339,894	CERVENY 91-NL-108	
Univ of North Texas				
MODELING AND ANALYSIS OF THE TRANSDUCTION PROCESSES IN THE SEMICIRCULAR CANALS	Holmes	N 36 29/06/91 \$193,922	TANGNEY 91-NL-121	
Consolidator Polytechnic Institute				
MOL-CLAR APPROACH TO HYPOTHALAMIC RHYTHMS	Sutcliffe	N 60 31/05/91 \$1,205,297	HADDAD 91-NL-104	
scripps Clinic and Research Foundation				
PARALLEL PROCESSING AND LEARNING: VARIABILITY AND CHAOS IN SELF-ORGANIZATION OF ACTIVITY IN GROUPS OF NEURONS	Haitao	N 36 01/05/91 \$334,889	HADDAD 91-NL-098	
Precision State University				
MELATONIN ACTION IN THE CIRCADIAN PACEMAKER IN SYLVESTER HAMSTERS	Janet	N 12 13/06/91 \$95,738	A HADDAD 91-NL-119	\$95,738 01/09/91 \$95,738
Northeastern University				
SELF-TRAINING COMPUTER SYSTEM FOR IMPROVED VISION PERFORMANCE	Arthur	N 24 01/05/91 \$466,940	D HADDAD 91-NL-097	
Vision Sciences Research Corp				
STUDY OF THE EFFECT OF HYPERBARIC OXYGEN ON CRUSH INJURY IN THE CA	Eric	N 12 03/04/91 \$2,500	A CERVENY 91-NL-082	\$2,500 01/07/91 \$2,500
Medical College of Wisconsin				
11TH INTERNATIONAL ANNUAL MEETING OF THE TOPS COMMISSION ON ORAVIT	Nello	N 12 06/05/91 \$15,000	A CERVENY 91-NL-100	\$15,000 15/08/91 \$15,000
ATIONAL PHYSIOLOGY				
Illinois Foundation				
FORMULATION FOR PHYSIOLOGICAL INDICES OF ACUTE FORKJAD STATUS	Alan	N 24 01/05/91 \$551,287	A HADDAD 91-NL-096	\$255,000 30/09/91 \$551,287
THE CLIMATE				
and Technology, Inc.				

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT 01 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 4

TITLE (CONT.)
SUBMISSION

INITIATE
START DATE
TOT AMT

STATUS
PROGRAM MANAGER
PROPOSAL #

TYPE/MONTHS
RECEIVED
AMOUNT

THE EFFECT OF HYPERBARIC OXYGENATION UPON 2,5-DIARYLSULFONE

Louisiana State University

Wilson

Arnold

CERVENY
91-NL-080

N 12
02/04/91
\$30,938

EFFECTS OF RADIATION ON VARIOUS CULTURED MAMMALIAN CELL LINES

University of Wisconsin

Smith

Carroll

D
CERVENY
91-NL-109

N 36
03/06/91
\$375

SIGNAL AND LIGAND-INDUCED FACTORS IN COMPLEX MODULAR PATTERN PRO-
TEIN

State University of New York

Smith

Arthur

A
HADDAD
91-NL-099

\$120,000
15/08/91
\$273,000

SPATIAL COGNITION AND MENTAL MODELS FOR SURROUNDING SPACE

State University of New York

Forman

Vance

HADDAD
91-NL-101

N 36
05/05/91
\$243,051

PATHWAYS OF ACTIVATION AND THE PRODUCTS OF HYDROLYSIS OF FUEL OXID-
IZATION

Univ of North Carolina

Gold

Avram

CERVENY
91-NL-106

N 36
31/05/91
\$338,538

VISUAL ENCODING OF SPATIAL RELATIONS

Univ of North Carolina

Turner

Christina

HADDAD
91-NL-117

N 36
13/06/91
\$398,232

SEASON RESEARCH CONFERENCE ON BARRIER FUNCTION OF MAMMALIAN SKIN

London Research Conference Inc

Boyle

Stussell

CERVENY
91-NL-078

\$10,000
01/06/91
\$10,000

MECHANISM OF LETHAL INTERACTION OF HAZARDOUS CHEMICALS AT SUBTOXIC
DOSES

Univ of Mississippi Medical Center

Anderson

Marshall

CERVENY
91-NL-116

S 36
04/06/91
\$552,374

REPAIR OF DENTAL FACINGS AND DENTAL REPAIR

University of Wisconsin

Smith

Smith

CERVENY
91-NL-114

S 36
04/06/91
\$453,000

REPORT DATE: 07/15/92

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DISTRIBUTION STATEMENT 5

PAGE 5

TITLE
TITLE (CONT.)
INSTITUTION

THE KEY INVOLVEMENT OF POLYMER-NOVELLATION IN DEPTHS AGAINST
POLYMER-NOVELLATION STUDY
Southern University

KEY WORDS

Smulson

A CONSTRAINT LEARNING NEURAL NETWORK MODEL OF STEREOSCOPIC DISCRIMINATION
THE PSYCHOLOGICAL AND NEUROPHYSIOLOGICAL RESULTS
Southern University

Keywords

KEY WORDS AND VISUAL INFORMATION PROCESSING

Keywords - The State University

Kosler

NEURAL DRIVE, AND COUPLED SIGNALS OF THE BIOLOGICAL CLOCK

Keywords

Silver

A BASIC STUDY OF MICROBIAL RESISTANCE TO THE TOXIC EFFECTS OF CHLORINE
KEY WORDS
Keywords

Ingber

MEASUREMENT AND REGULATION OF CENTRAL NEUROCHEMICAL RECEPTORS

Keywords

Stone

FORWARD A NEUROBIOLOGICAL THEORY OF VISUAL ATTENTION

Keywords

Koch

NEURAL DRIVE AND REPORT

Keywords

Ellen

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
R 36 04/06/91 \$317,184	CERVENY 91-NL-115	
N 24 24/04/91 \$235,624	HADDAD 91-NL-094	
R 36 11/04/91 \$631,968	A HADDAD 91-NL-089	\$150,000 30/09/91 \$395,000
N 36 11/05/91 \$247,522	HADDAD 91-NL-105	
N 24 11/05/91 \$196,348	CERVENY 91-NL-107	
R 60 12/06/91 \$1,013,354	HADDAD 91-NL-118	
N 36 30/05/91 \$333,690	HADDAD 91-NL-102	
N 36 30/05/91 \$370,799	HADDAD 91-NL-103	

REPORT DATE 07/11/91

PROJECT STATUS: P
ALL PROJECTS ARE IN OFFICE STATUS
OF OFFICE OF DATA ANALYSIS INFORMATION SYSTEMS

PAGE 1

TITLE
FUEL (CONT.)
SUBSTITUTION

TYPE/MONTHS
RECEIVED
AMOUNT

STATUS
PROGRAM MANAGER
PROPOSAL #

INITIATE
START DATE
TOT AMT

ANALYTICAL INVESTIGATIONS IN CHEMICAL DYNAMICS

Inv of Maryland

James

James

NACHMAN
91-NM-203

\$122,491
01/10/91
\$333,417

HYPERSONIC FLUID DYNAMICS

Inv of Arizona

James

James

NACHMAN
91-NM-208

\$122,491
01/10/91
\$333,417

FOR INVERSE SCATTERING ANALYSIS FOR ACQUISITION AND ELECTROMAGNETIC

Inv of Arizona

James

James

NACHMAN
91-NM-218

\$122,491
01/10/91
\$333,417

RECONSTRUCTION OF IMAGES FROM SCATTERING AND IMP

Inv of Arizona

James

James

NACHMAN
91-NM-221

\$122,491
01/10/91
\$333,417

INFRA RED SIGNAL PROCESSING

Inv of Minnesota

James

James

NACHMAN
91-NM-223

\$122,491
01/10/91
\$333,417

COMPUTER MICROCOMPUTER-BASED VIBR. ROUTING AND SCHEDULING

Inv of Arizona

James

James

NACHMAN
91-NM-232

\$122,491
01/10/91
\$333,417

ADVANCES IN ROCKET CONTROL

Inv of Arizona

James

James

NACHMAN
91-NM-234

\$122,491
01/10/91
\$333,417

FOR FORMULATION & APPLICATION OF TAU STABLE FINITE ELEMENT

Inv of Arizona

James

James

NACHMAN
91-NM-236

\$122,491
01/10/91
\$333,417

FOR HIGH SPEED CONTROL SYSTEM FOR POLYMERIZATION

Inv of Minnesota

James

James

NACHMAN
91-NM-238

\$122,491
01/10/91
\$333,417

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REPORT DATE: 07/10/91

REPORT TITLE: REPORT (1) APP A - 10 JUN 91
 TITLE: ANALYSIS OF COMPUTING RESOURCES
 OF THE OFFICE OF MATHEMATICAL SCIENCES

PAGE 2

INSTITUTION	PI	PI TITLE	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ROBERTS CONTROL SYSTEMS	J.	PI TITLE	R 36 16/05/91 \$298,793	A JACOBS 91-NM-235	\$94,699 01/10/91 \$288,793
Ohio University					
PRODUCTIVE DATABASE AND KNOWLEDGE SYSTEMS	Jack	PI TITLE	N 36 16/05/91 \$426,399	A WAKSMAN 91-NM-242	\$132,485 30/09/91 \$426,999
Ohio of Michigan					
PIST OPERATOR MATRIX (SOM) FORMALISM AND ITS APPLICATION TO CHEMICAL/ PHYSICAL SYSTEMS	Richard	PI TITLE	R 36 29/05/91 \$402,407	NACHMAN 91-NM-256	
Ohio of Michigan					
STUDIES IN LARGE SCALE CONVEX QUADRATIC PROGRAMMING	Andy	PI TITLE	N 48 30/05/91 \$296,622	GLASSMAN 91-NM-262	
Ohio of Michigan					
NUMERICAL METHODS FOR THE CONTROL OF LARGE COMPLEX NON-LINEAR ANALOGOUS SYSTEMS	Harold	PI TITLE	N 37 21/05/91 \$422,891	A JACOBS 91-NM-264	\$0 01/09/91 \$422,891
Ohio University					
ADJUST STABILIZATION AND CONTROL OF DISCRETE OPERATIONS: THEORETICAL AND NUMERICAL ASPECTS	Z.	PI TITLE	N 36 07/06/91 \$290,000	JACOBS 91-NM-273	
Ohio of Virginia					
SHALL LAYER BREAKDOWN IN COMPRESSIBLE FLOW	J. C. A.	PI TITLE	N 36 15/06/91 \$193,690	A NACHMAN 91-NM-277	\$61,440 01/10/91 \$193,690
Lehigh University					
AD-INTENSIVE COMPUTATIONAL FLUIDITY	Jeffery	PI TITLE	N 36 20/06/91 \$453,802	GLASSMAN 91-NM-235	
Ohio University					
PIST GENERATION SOLID MODELS FOR ELECTRONIC PROPERTIES	Jeffery	PI TITLE	N 24 21/06/91 \$182,596	GLASSMAN 91-NM-272	
Ohio of Michigan					

REPORT DATE 07/10/91

PROPOSAL STATUS ON 01 APR 91 - 30 JUN 91
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DISCOPATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 3

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONLINEAR MECHANICS AND APPLICATION ANALYSIS Univ of Maryland	Madhavi	N 36 23/06/91 \$314,798	NACHMAN 91-NM-296	
INVESTIGATIONS IN LINEAR AND INT OR PROGRAMMING Univ of Maryland	Jimmy	N 12 28/06/91 \$52,455	A GLASSMAN 91-NM-300	\$52,455 01/10/91 \$52,455
EFFICIENT ALGORITHMS AND DATA STRUCTURES IN ELECTRIC DESIGN Purdue University	Chanderjit	P 36 23/06/91 \$375,458	GLASSMAN 91-NM-302	
CONTINUUM LIMITS OF DISCRETE PARTICLE SYSTEMS Univ of Maryland, Baltimore Campus	Greene	N 16 17/05/91 \$33,000	A NACHMAN 91-NM-244	\$33,000 01/09/91 \$33,000
HIERARCHICAL MODELING AND LOCKING EFFECTS IN THE NUMERICAL ANALYSIS OF MULTISTRUCTURES Univ of Maryland, Baltimore Campus	Guri	N 36 23/06/91 \$225,758	NACHMAN 91-NM-301	
FAST MULTIPOLAR METHODS FOR SCATTERING COMPUTATION East Algorithms & Hardware Corporation	Colfman	N 48 06/06/91 \$533,360	A NACHMAN 91-NM-265	\$133,360 01/09/91 \$533,360
SUPVIVAL NOT THROUGH Northern Illinois University	Shreiner	N 24 28/06/91 \$81,755	SJOGREN 91-NM-299	
RESEARCH IN MIXED-INTEGER PROGRAMMING Georgia Institute of Tech	Nannan	N 12 16/04/91 \$50,000	A GLASSMAN 91-NM-219	\$50,000 01/06/91 \$50,000
WORLD CONGRESS OF NONLINEAR ANALYSIS Florida Institute of Technology	Lakshminathan V.	N 12 28/06/91 \$68,310	NACHMAN 91-NM-297	

POST DATE 07/16/91

PROPOSAL DATES: FROM 01 APR 91 TO 30 JUN 91
 ALL PROPOSALS MUST BE SUBMITTED TO THE
 OFFICE OF MATHEMATICAL INFORMATION SCIENCES

PAGE 4

TITLE (CONT.) INSTITUTION	UNIVERSITY	PI	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DYNAMIC COMMUNICATION JAMMING/INTERCEPT JAMES					
Univ of Southern Cal -- Dept of Elec Eng	Simon		N 24 20/06/91 \$17,242	SJOGREN 91-NM-288	
INTERNATIONAL CONFERENCE ON RANDOM WALKING, PARTITION, AND COMBINATORICS					
Univ of Southern California	Simon		N 40 09/05/91 \$40,020	GLASSMAN 91-NM-237	
ADJUST CONTROL METHODS					
Univ of Southern California	Michael		N 36 24/05/91 \$382,324	JACOBSON 91-NM-253	
EMPIRICAL ALGORITHMS FOR STRUCTURED STABILITY ANALYSIS COMPUTATION					
Univ of Southern California	Michael		N 36 06/06/91 \$254,930	JACOBSON 91-NM-266	
PROBABILITY MODELS AND STATISTICAL INFERENCE FOR RELIABILITY ASSESSMENT					
Univ of Southern California	James		N 36 06/06/91 \$189,281	SJOGREN 91-NM-287	
FORMY AND APPLICATION OF RANDOM FIELDS					
Technion--Israel Institute of Technology	Robert		N 36 06/05/91 \$350,150	SJOGREN 91-NM-230	
PARALLEL DIVIDE-AND-CONQUER APPROACH FOR THE SOLUTION OF LINEAR PROBLEMS					
Illinois National Laboratory	Christian		N 36 02/05/91 \$785,315	NACHMAN 91-NM-228	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR					
City College - CUNY	Mark		N 24 17/05/91 \$75,031	SJOGREN 91-NM-245	
HIGH PERFORMANCE COMPUTING					
Defense Advanced Research Project Agency	All		N 12 22/04/91 \$150,000	A HOLLAND 91-NM-222	\$150,000 20/04/91 \$150,000

REPORT DATE: 07/15/91

PERIOD: 01 OCT 91 - 30 JUN 91
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DEPARTMENT OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 5

TITLE PILOT (COUNT) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A NEW TOOL FOR SIGNAL PROCESSING		N 36 16/05/91 \$360,198	SJOGREN 91-NM-243	
City Univ of New York Graduate School	Louis			
NON-LINEAR TIME INVARIANT COMPENSATION OF FEEDBACK SYSTEMS		N 12 05/04/91 \$211,261	JACOBS 91-NM-211	
Univ of California	Isaac			
STABILITY, BIFURCATION, AND CONTROL OF HAMILTONIAN SYSTEMS		N 24 07/06/91 \$1,474,355	NACHMAN 91-NM-271	
Univ of California	Jerrold			
NONLINEAR SYSTEM DESIGN: ADAPTIVE FEEDBACK LINEARIZATION WITH UNMODELLED DYNAMICS		N 12 13/06/91 \$81,650	A JACOBS 91-NM-276	\$81,650 01/10/91 \$81,650
Univ of California	Peter			
MATHEMATICAL PROBLEMS IN IMAGING, STATISTICAL MECHANICS AND RELATED TOPICS		N 36 14/06/91 \$869,289	NACHMAN 91-NM-281	
Univ of California	F. Garcia			
STOCHASTIC DYNAMIC OPTIMIZATION: SOLUTION PROCEDURES		R 24 20/06/91 \$139,755	GLASSMAN 91-NM-284	
Univ of California	Roger			
CS-100 INTERACTIVE DISTRIBUTED LOGISTICS MANAGEMENT		N 02 06/05/91 \$499,516	O GLASSMAN 91-NM-231	
Computer Aided Plan & Schedule Inc.	William			
NUMERICAL METHODS FOR CONTROL OF HEREDITARY SYSTEMS		N 24 23/06/91 \$78,273	JACOBS 91-NM-238	
North Carolina State University	Hien			
GOV-RT COMMUNICATIONS SYSTEM EMPLOYING FAULT TOLERANT Atlantic Aerospace Electronics Corp.		N 25 13/06/91 \$3,287,563	A NACHMAN 91-NM-275	\$490,000 01/10/91 \$2,397,211
	Rich			

REPORT DATE: 07/15/91

PROPOSAL STATUS: POST C 1 NR 11 - 36 JAN 91
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 6

TITLE (TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SYNTHESIS OF ROBUST CONTROLLERS UNDER PERTURBATIONS OF MIXED TYPE Texas A and M Research Foundation	S	N 36 23/05/91 \$358,045	JACOBS 91-NM-257	
DYNAMICS OF MECHANICAL/STRUCTURAL SYSTEMS WITH STROBE LOCAL NONLINEARITIES Texas A and M Research Foundation	S	N 36 07/06/91 \$368,115	NACHMAN 91-NM-270	
LEARNING IN AN INTERNATIONAL SYSTEM Northwestern University	Loerence	N 36 01/04/91 \$259,000	A WAKSMAN 91-NM-205	\$80,383 01/08/91 \$80,383
RAISON TRANSFORM AND WAVELITS George Mason University	Gerstein	N 31 05/04/91 \$151,161	SJOGREN 91-NM-210	
STABILITY OF DYNAMICAL SYSTEMS IN THE PRESENCE OF NOISE Northwestern University	Pinsky	N 12 20/05/91 \$15,000	A SJOGREN 91-NM-249	\$15,000 01/07/91 \$15,000
EXPERIMENTAL ENHANCEMENTS TO LONG-DISTANCE NETWORKS Purdue State University	Thirumangayam	N 24 06/06/91 \$142,488	WAKSMAN 91-NM-267	
FAULT-TOLERANCE AND PERFORMANCE IN REAL-TIME SYSTEMS Univ of Massachusetts	Grichan	N 24 21/06/91 \$339,633	HOLLAND 91-NM-294	
HIGH-SPEED PARALLEL INTERCONNECTION SYSTEMS: DISTRIBUTED CONTROL AND ANALYSIS Univ of Massachusetts	Chilcote	N 36 27/06/91 \$443,751	HOLLAND 91-NM-295	
THEORY AND APPLICATION OF RANDOM FIELDS Technion Res & Development Foundation	Adler	N 36 01/04/91 \$350,150	SJOGREN 91-NM-209	

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF INFORMATION SCIENCES

REPORT DATE 07/15/91

TITLE	TYPE/MONTHS RECEIVED	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONLINEAR STABILITY OF UNSTABLE VISCOUS FLUID	N 36 15/04/91 \$152,899	NACHMAN 91-NM-215	
LOW STATE Univ of Science and Tech			
A FAST MULTILEVEL INTEGRAL-EQUATION SOLVER FOR LARGE SCALE ELECTROMAGNETIC COMPUTATIONS	N 24 20/06/91 \$349,060	NACHMAN 91-NM-290	
LOCKHEED INTERNATIONAL Science Center			
TRANSPARENT HARDWARE DATA COMPRESSION FOR UNIX	N 06 17/06/91 \$99,843	HOLLAND 91-NM-282	
Intelligent Applications, Inc.			
THEORETICAL AND COMPUTATIONAL ADVANCES FOR ENTROPY PRINCIPLES	N 36 15/04/91 \$225,000	GLASSMAN 91-NM-217	\$150,416 01/09/91 \$456,461
FOR LINEAR PROGRAMMING			
Princeton University			
APPLICATION OF CONTROL THEORY IN AERODYNAMICS	N 37 30/05/91 \$456,461	JACOBS 91-NM-260	\$125,000 01/10/91 \$394,252
Princeton University			
ROBUST OPTIMIZATION OF LARGE-SCALE SYSTEMS: AN EMERGING NEW TECHNOLOGY	N 19/06/91 \$394,252	GLASSMAN 91-NM-283	
Princeton University			
MULTIVARIATE PROBLEMS OF STATISTICS, COMBINATORICS, RELIABILITY, AND SIGNAL PROCESSING	R 12 13/06/91 \$29,380	SJOGREN 91-NM-278	
Colorado State University			
LEARNING ABOUT OBJECT RECOGNITION AND REASONING UNDER UNCERTAINTY	R 36 01/04/91 \$481,024	WAKSMAN 91-NM-204	
Univ of Pennsylvania			
ANALYTICAL, COMPUTATIONAL AND EXPERIMENTAL STUDIES OF BISTABLE UFG PARAMETERS AND NONLINEAR CONTROL SYSTEMS	N 36 24/05/91 \$371,413	JACOBS 91-NM-252	
Virginia Polytechnic Institute and State Univ			

REPORT DATE 07/10/91

PROPOSAL STATUS REPORT 1 APR 91 - 30 JUN 91
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 OFFICE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 8

FILE (CONT.) INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
APPROXIMATIONS AND SUBOPTIMIZATION OF COMPOSITE LAMINATE DESIGN Virginia Polytechnic Inst & State Univ	N 36 07/06/91 \$307,415	GLASSMAN 91-NM-272	
THE ACQUISITION AND UTILIZATION OF SPATIAL AND FUNCTIONAL KNOWLEDGE FOR IMAGERY ANALYSIS Carnegie-Mellon University	R 36 01/04/91 \$699,401	WAKSMAN 91-NM-207	
THE ACQUISITION AND UTILIZATION OF SPATIAL AND FUNCTIONAL KNOWLEDGE FOR IMAGERY ANALYSIS Carnegie-Mellon University	R 36 15/04/91 \$699,401	WAKSMAN 91-NM-214	
MULTIPROCESSING SYSTEMS: RELIABILITY MODELLING AND ANALYSIS USING MULTIMODE COMPONENTS AND COMPONENT FAILURES Louisiana State University	R 12 29/05/91 \$67,163	SJOGREN 91-NM-255	
COMPUTATIONAL METHODS FOR FLUID DYNAMICS AND MICROSTRUCTURE Carnegie-Mellon University	R 36 29/05/91 \$402,121	NACHMAN 91-NM-258	
THE ACQUISITION AND UTILIZATION OF SPATIAL AND FUNCTIONAL KNOWLEDGE FOR IMAGERY ANALYSIS Carnegie-Mellon University	R 03 30/05/91 \$60,000	A WAKSMAN 91-NM-263	\$60,000 01/09/91 \$60,000
COMPLEX PHASE-LOCKED ANTI-ALIAS FILTER ESTIMATION AND COMPARISON OF SUBOPTIMAL DESIGNING State University of New York	N 26 17/05/91 \$202,959	SJOGREN 91-NM-246	
ON METHODS FOR DESIGNING COMMUNICATION NETWORKS State University of New York - Stony Brook	N 36 17/05/91 \$206,632	GLASSMAN 91-NM-248	
STATISTICS OF LOW FREQUENCY SIGNALS: ESTIMATION OF VARIANCE AND OF SAMPLING DISTRIBUTION VIA A SUBOPTIMAL PICO SAMPLING TECHNIQUE Carnegie Mellon Foundation	N 24 24/05/91 \$47,072	SJOGREN 91-NM-251	

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PROPOSAL STATUS REPORT (1 APR 61 - 30 JUN 61)
AIR-MAIL OFFICE OF SCIENTIFIC RES-ARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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INSTITUTION
FIFTH PURDUE INTERNATIONAL SYMPOSIUM OF STATISTICAL SCIENTISTS
FACTORY
Purdue Research Foundation
Purdue Research Foundation
INVESTIGATOR
Purdue Research Foundation

IBM Almaden Research Center

THEORETICAL ASPECTS OF REASONING ABOUT KNOWLEDGE
JIM ALLEN and MICHAEL GELBERG

SPACE ANALYSIS OF CULTURAL MULTIMEDIA: A TRANSFORM APPROACH

STATION, MULTI-PURPOSE DISTRIBUTION SYSTEM
1000 GENE HILL
WITH GENE HILL
WESTERN UNIVERSITY
BALKIN

ADAPTIVE ESTIMATION AND APPROXIMATION OF CONTINUOUSLY VARYING
SPECIAL DENSITY FUNCTIONS TO AIRBORNE DATA
ALEXIS TCHEN, University of Texas at Austin

RESEARCH AND DEVELOPMENT OF THE P-V-ECTION OF THE FINITE ELEMENT METHOD
CHIEF
WASHINGTON UNIVERSITY
KANSAS

LEARNING TASK SPECIFIC ARCHITECTURES WITH CAUSAL AND VISUAL REASONING

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4201 is a common brown flycatcher, also in the

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TYPE MONTHS	ACCUMULATED	STATUS	PROGRAM MANAGER	INITIATE
AMOUNT		PROPOSAL #		START DATE
				TOT AMT
N 12		SJOGREN		
07/06/91		91-NM-269		
\$3,000				
N 24		HOLLAND		
12/05/91		91-NM-274		
\$335,404				
N 06		WAKSMAN		
14/06/91		91-NM-230		
\$20,000				
N 36		JACOBS		
20/05/91		91-NM-250		
\$234,129				
N 12		GLASSMAN		
07/06/91		91-NM-268		
\$59,220				
N 24		SJOGREN		
13/04/91		91-NM-216		
\$113,871				
N 36		NACHMAN		
02/05/91		91-NM-227		
\$235,392				
N 36		WAKSMAN		
09/05/91		91-NM-261		
\$434,220				
N 24		JACOBS		
22/05/91		91-NM-225		
\$104,877				

REPORT DATE 07/1/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
JOINT STAFF OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 10

TITLE FILE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SOLVING MANUFACTURING PROBLEMS USING SOFTWARE FOR LARGE-SCALE NONLINEAR PROGRAMMING IBM Thomas J. Watson Research Center	Conn	N 36 06/05/91 \$922,480	A GLASSMAN 91-NM-229	\$9,998 01/09/91 \$922,480
CHARACTERISTIC-VALUE MODELLING OF CURVED-SURFACE SOLIDS Integers - The State University	Freeman	N 36 16/05/91 \$221,757	WAKSMAN 91-NM-241	
ACOUSTIC OF ENERGY MINIMIZING SURFACES Integers - The State University	Taylor	N 36 29/05/91 \$382,005	NACHMAN 91-NM-259	
MULTIRESOLUTION SIGNAL SYSTEM ANALYSIS AND CONTROL OF DISCRETE-TIME DYNAMICS SYSTEMS Massachusetts Institute of Technology	Alvin	N 36 15/04/91 \$400,409	A JACOBS 91-NM-212	\$125,000 01/10/91 \$395,409
MATHEMATICAL TECHNIQUES: NONLINEAR WAVE PHENOMENA IN HYDRODYNAMICS Massachusetts Institute of Technology	Orvin	N 12 18/04/91 \$28,500	A NACHMAN 91-NM-220	\$28,500 01/07/91 \$28,500
DISTRIBUTED SYSTEMS: STOCHASTIC METHODS OPTIMIZATION AND APPLICATIONS IN COMMAND AND CONTROL Massachusetts Institute of Technology	Glantz	N 36 06/05/91 \$300,724	JACOBS 91-NM-233	
SIAM CONFERENCE OF OPTIMIZATION THEORY AND APPLICATIONS Society for Industrial & Applied Math	Block	N 12 02/05/91 \$10,000	A GLASSMAN 91-NM-235	\$10,000 01/09/91 \$10,000
FOUNDATIONS OF TECHNOLOGY FOR CONSTRUCTING HIGHLY RELIABLE DISTRIBUTED REALTIME SYSTEMS Stanford University	Lockman	N 33 01/04/91 \$403,402	A HOLLAND 91-NM-206	\$140,654 01/09/91 \$409,402
APPLIED NUMERICAL METHODS WITH OPTIMIZATION Clarkson University	Byron	N 33 13/04/91 \$177,619	NACHMAN 91-NM-213	

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 11

TITLE
(CONT.)
INSTITUTION

INTERIOR POINT ALGORITHMS FOR MATHEMATICAL PROGRAMMING

Columbia University

Goldfarb

Donald

MULTI-RESOLUTION IMAGE COMPRESSION

Clarkson University

Doni

Pin

ALGORITHMS FOR LINEAR AND NONLINEAR PROGRAMMING

Stanford University

Murray

W. R.

TOPICS IN STOCHASTIC SYSTEMS, FAILURE TIME MODELS, CHANGE-POINT
PROBLEMS, AND SEQUENTIAL ANALYSIS

Stanford University

Siegmund

David

SOLVING LINEAR PROGRAMS UNDER UNCERTAINTY: USING DECOMPOSITION,
IMPORTANCE SAMPLING, AND PARALLEL PROCESORS

Stanford University

Dantzig

George

-STIMULATION WITH MULTIDIMENSIONAL MULTICOMPLEX DIFFUSION

Univ of Connecticut

Jar-Shalom

Yakov

ADJUST CONTROL THEORY AND APPLICATIONS

California Institute of Technology

Joy

John

A POLYNOMIAL TIME ALGORITHM FOR THE CONSTRUCTION AND TRAINING OF A
CLASS OF MULTILAYER PERCEPTRONS

Arizona State University

Ray

Asim

IMAGE TO BAND REGISTRATION - ESTIMATION IN IMAGE ANALYSIS AND
OTHER TOPICS IN MATHEMATICAL STATISTICS

Texas A and M University

Carroll

R.

TYPE/MONTH
RECEIVED
AMOUNT

N 36
17/05/91
\$472,738

STATUS
PROGRAM MANAGER
PROPOSAL #

GLASSMAN
91-NM-247

INITIATE
START DATE
TOT AMT

N 24
13/06/91
\$80,540

SJOGREN
91-NM-279

N 36
20/06/91
\$265,579

GLASSMAN
91-NM-286

R 36
20/06/91
\$365,029

SJOGREN
91-NM-289

N 36
21/06/91
\$328,967

GLASSMAN
91-NM-291

N 06
29/04/91
\$11,000

A
GLASSMAN
91-NM-224

\$11,000
01/08/91
\$11,000

N 36
21/06/91
\$348,906

JACOB
91-NM-293

N 12
30/04/91
\$55,057

GLASSMAN
91-NM-225

R 24
13/05/91
\$75,475

SJOGREN
91-NM-240

REPORT DATE: 07/10/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC RES-ARCH
CORPORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 12

TITLE
(CONT.)
SUBSTITUTION

COMPUTER AIDED SURFACE ANALYSIS
Arizona State University

INVESTIGATOR

Donnell

Robert

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 12 24/03/91 \$75,000	A HOLLAND 91-NM-254	\$75,000 01/07/91 \$75,000

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 THE JOINT OFFICE OF SCIENTIFIC RESEARCH
 FOR STUDIES OF PHYSICAL AND BIOLOGICAL SCIENCES

PAGE 1

TITLE (FILE CONT.) SUBSTITUTION	INITIATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PLASMA MICROWAVE ELECTRONICS- STUDIES OF HIGH POWER PLASMA COATED BACKWARD WAVE OSCILLATORS Univ of Maryland	Victor	N 36 12/04/91 \$644,016	BARKER 91-NP-100	
OPTICAL FREQUENCY STANDARDS: QUARTZ-LEVEL WORKING STANDARDS AND FURTHER ABSOLUTE FREQUENCY ADJUSTMENT Univ of Colorado	Leon	N 24 12/04/91 \$330,000	A KELLEY 91-NP-102	\$165,000 01/08/91 \$330,000
STUDIES OF MECHANISMS OF SHORT WAVELENGTH EXCITATION WITH STRONG-FIELD INTERACTIONS Univ of Illinois	Charles	N 36 17/04/91 \$765,000	SCHLOSSBER 91-NP-105	
COLLISION AND MOTIONAL WIGGING EFFECTS IN QUANTUM ATOMIC HYDROGEN MASERS University of Illinois	Stuart	N 24 13/04/91 \$166,000	A KELLEY 91-NP-106	\$83,000 01/08/91 \$166,000
CHROMOSPHERIC ACTIVITY IN SOLAR FLARES Univ of Virginia	Richards	N 36 20/04/91 \$181,860	A RADOSKI 91-NP-108	\$58,542 01/10/91 \$181,860
STUDY OF A PREPACITABLE ORBITRON IN THE MILLIMETER TO SUBMILLIMETER WAVE RANGE Univ of Tennessee	Isaac	N 36 02/05/91 \$582,399	D BARKER 91-NP-110	
PLASMA FIELD-EMISSION VACUUM TUBES/RECTIONAL DEVICES FOR MICROWAVE AND MILLIMETER-WAVE APPLICATIONS Univ of Texas	David	N 36 02/05/91 \$500,026	D BARKER 91-NP-111	
PERFORMANCE OF COHERENT SYNCHROTRON RADIATION USING CYCLOTRON ANTENNA/ANTENNA ACCELERATION Univ of Texas	Jay	N 36 02/05/91 \$1,999,360	D BARKER 91-NP-116	
IONIC BEHAVIOR OF VACUUM MICROELECTRONIC DEVICES Univ of Texas	Duncan	N 36 02/05/91 \$332,152	D BARKER 91-NP-123	

REPORT DATE 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AIR FORCE OFFICE OF SCIENTIFIC AND TECHNICAL
OPERATIONS OF PHYSICAL AND GEOGRAPHICAL SCIENCES

PAGE 2

TITLE
FILL (CONT.)
INSTITUTION

COUPLING AMONG ION INSTABILITY MECHANISMS TO IONIC LAM-
ELECTRON TRAJECTORIES IN A PLASMA
Univ of Illinois

WIGWAG CYCLOTRON-WAVE AT THE CYCLOTRON HARMONIC AND HARMONICS
Univ of Michigan

HARMONIC FREE ELECTRON LASER STUDIES AT MILLIMETER WAV.
FACILITIES
Univ of Maryland

HARMONIC WIGWAG AMPLIFIERS AND PULSE LOCKED OSCILLATORS
Univ of Maryland

THE IRRADIATION WIGWAG
Univ of Tennessee

LOW VOLTAGE, RECTANGULAR MILLIMETER-WAVE CIRCULAR AMPLIFIERS
Univ of Wisconsin

AUTOPHASE-LOCKED OSCILLATOR (ALOS) WITH DRIFT, TUNABLE PULSED SOURCE IN
THE 100 MHz-1 THZ RANGE
Univ of Utah

FAST-WAVE, WIGWAG MILLIMETER-WAVE AMPLIFIER DESIGN
Univ of Utah

DEVELOPMENT OF A MILLIMETER-WAVE SOLID-STATE OSCILLATOR FOR
COMPACT FEL-DRIVE TUNABLE AMPLIFIERS
Univ of Utah

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
02/05/91
\$213,013

N 36
02/05/91
\$302,153

N 36
02/05/91
\$465,252

N 36
02/05/91
\$540,333

N 36
02/05/91
\$585,566

N 36
02/05/91
\$503,150

N 36
02/05/91
\$529,727

N 36
02/05/91
\$600,000

N 36
02/05/91
\$500,000

STATUS
PROGRAM MANAGER
PROPOSAL #

D
BARKER
91-NP-126

D
BARKER
91-NP-130

D
BARKER
91-NP-131

A
BARKER
91-NP-132

D
BARKER
91-NP-136

A
BARKER
91-NP-141

D
BARKER
91-NP-143

D
BARKER
91-NP-144

D
BARKER
91-NP-149

INITIATE
START DATE
TOT AMT

\$193,173
30/09/91
\$580,333

\$180,880
30/09/91
\$509,150

PROGRESS STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DEPARTMENT OF PHYSICAL AND PHYSICAL SCIENCES

TITLE (CONT.)	INITIALS	STATUS	PROGRAM MANAGER	INITIAL
PROJECT	NO.	PROPOSAL #	START DATE	TOT AMT
PERMANENT-RESEARCH, RATION-CONTROLLED IRRADIATION SOURCES				
Dartmouth College	John	91-NP-151		
EXPERIMENTAL AND THEORETICAL INVESTIGATION OF THE ABSORPTION AND REFLECTION FROM METAL SURFACES				
Univ of Maryland	William	91-NP-158		
ADVANCED RESEARCH IN SKY SURVEILLANCE: A SEARCH FOR LOW-LUMINOSITY OBJECTS				
Univ of Arizona	Tom			
FIFTH INTERNATIONAL CONFERENCE ON HIGH ENERGY PARTICLE BEAMS (1992)				
Univ of Maryland	Victor	91-NP-165		
THEORETICAL ASSESSMENT OF INITIAL GAMMA RADIATION MECHANISMS FROM HIGH-ENERGY PARTICLES				
Univ of Arizona	Peter	91-NP-172		
DIFFUSE XUV AND X-RAY RADIATION SOURCES				
Univ of Maryland	Thomas	91-NP-173		
THEORETICAL ASSESSMENT OF INITIAL GAMMA RADIATION MECHANISMS FROM HIGH-ENERGY PARTICLES				
Univ of Arizona	Thomas	91-NP-176		
STRUCTURE AND DYNAMICS OF X-RAY SOURCES				
Univ of Maryland	Thomas	91-NP-180		
THEORETICAL ASSESSMENT OF INITIAL GAMMA RADIATION MECHANISMS FROM HIGH-ENERGY PARTICLES				
Univ of Arizona	John	91-NP-181		

INITIALS: 07/10/91

REPORT DATE: 07/15/91

PROPOSAL NUMBER: 1 APR 91 - 30 JUN 91
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF PHYSICAL AND SCIENTIFIC SCIENCES

PAGE 4

FILE TITLE (CONT.) INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
RESEARCH IN SCIENCE: PROBE MICROSCOPY Univ of Arizona	2 36 26/06/91 \$450,000	SCHLOSSER 91-NP-132	
POTENTIAL-Well CONDUCTED, FLUENCY EFFECTS ELECTRON-Beam-Induced ILLUMINATION: X-Ray SOURCE: APPLIED RADIATION American Research Corp of America	2 24 02/05/91 \$490,000	BARKER 91-NP-152	
EFFECT OF WORK FUNCTION ON EMISSION FROM LOW VOLTAGE FIELD EMISSION Corning Institute of Tech	2 36 02/05/91 \$579,740	BARKER 91-NP-146	
PHYSICOCHEMICAL PROCESSES IN ADVA THERMAL/PHYS CATHODE MATERIALS SYSTEMS Corning Institute of Tech	2 36 02/05/91 \$595,550	BARKER 91-NP-147	
TOUS LOCKING OF FREE ELECTRON SOURCES OF MICROWAVE MILLIMETER Univ of Southern Cal -- Dept of Elec Eng McCurdy	2 36 02/05/91 \$533,819	BARKER 91-NP-124	\$199,826 30/09/91 \$598,819
MICROWAVE AND MILLIMETER WAVE SOURCE BASED ON ROUGH HIGH CURRENT TOLLUM CATHODE ELECTRON BEAM Univ of Southern Cal -- Dept of Elec Eng Sunderson	2 36 02/05/91 \$533,763	BARKER 91-NP-125	
AN ASSESSMENT OF PLASMA PROCESSING OF MATERIALS National Science Foundation	2 64 15/05/91 \$10,000	BARKER 91-NP-150	\$10,000 01/06/91 \$10,000
ASSESSMENT OF FUTURE OPPORTUNITIES IN ATOMIC, MOLECULAR, AND OPTICAL SCIENCES National Science Foundation	2 18 03/06/91 \$22,530	KELLEY 91-NP-170	\$22,530 01/07/91 \$22,530
AN INTERNATIONAL FREE ELECTRON LASER CONCEPT Los Alamos National Lab Norman	2 66 21/03/91 \$10,000	SCHLOSSER 91-NP-161	\$10,000 01/08/91 \$10,000

REPORT DATE: 07/15/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUN 91)
 AIR FORCE OFFICE OF SCIENTIFIC ASSESSMENT
 AIR STUDY OF PHYSICAL AND GEOGRAPHICAL SCENARIOS

PAGE 5

FIELD TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIAL START DATE TOT AMT
NONLINEAR PHOTON LOCALIZATION FOR HIGH ENERGY LASER PROTECTION SYSTEMS FOR PHOTO FACTORIES BY THE ARMY City College - CUNY	Alfano	N 36 23/04/91 \$300,000	A SCHLOSSER 91-NP-107	\$30,000 15/07/91 \$300,000
STABLE MID-AND HARMONIC (Y)-AMPLIFIER Univ of California	Lundman	N 36 02/05/91 \$513,771	A BARKER 91-NP-112	\$196,707 30/09/91 \$513,771
NEGATIVE ENERGY CYCLOTRON SUBHARMONIC MAGNET Univ of California	Lundman, Jr	N 36 02/05/91 \$600,000	D BARKER 91-NP-113	
LARGE CROSS-SECTION, CO-AXIAL AM-PLIFIER Univ of California	Porter	N 36 02/05/91 \$222,223	D BARKER 91-NP-114	
RADIO-FREQUENCY VACUUM ELECTRONICS RESEARCH PROGRAM Univ of California	De Groot	N 36 02/05/91 \$603,587	D BARKER 91-NP-115	
COMPUTER SIMULATIONS OF PLASMA-FILLED BACKWARD WAVE OSCILLATOR AND GYROTRON AMPLIFIER Univ of California	Lin	N 36 02/05/91 \$600,000	D BARKER 91-NP-119	
LATERAL VACUUM MICROELECTRONIC EMITTERS AND PUT Univ of California	Mishra	N 36 02/05/91 \$199,086	D BARKER 91-NP-139	
FIELD EMISSION MICRO-CATHODES FOR MICROWAVE APPLIED APPLICATIONS Univ of California	Hunt	N 36 02/05/91 \$368,335	D BARKER 91-NP-140	
COMPUTER SIMULATIONS OF RADIATION GENERATION FROM RELATIVISTIC ELECTRON BEAMS Univ of California	Lin	N 12 17/06/91 \$120,000	A BARKER 91-NP-177	\$120,000 01/10/91 \$120,000

REPORT DATE 07/10/91

PROPOSAL STATUS REPORT FOR 01 - 01 JUN 91
 ALL PROPOSALS ARE SCIENTIFIC IN NATURE
 DERIVED FROM THE PHYSICAL AND GEOGRAPHICAL SCIENCES

PAGE 6

TITLE (CONT.) INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ENHANCED VACUUM FIELD EMISSION DEVICES VIA THE USE OF PULSED MICROSTRUCTURED FILMS North Carolina State University	N 26 02/05/91 \$595,000	BARKER 91-NP-137	\$20,000 01/06/91 \$20,000
PRECISE TIME AND TIME INTERVAL MEASUREMENT Lawrence Livermore Laboratory	N 12 14/05/91 \$20,000	A KELLEY 91-NP-159	\$20,000 01/06/91 \$20,000
ACOUSTIC ACTIVITIES NASA - NASA Technological and Space Admin	N 06 17/04/91 \$20,000	A LEWIS 91-NP-103	\$20,000 01/04/91 \$20,000
EXPERIMENTAL AND THEORETICAL STUDY OF HIGH CURRENT DENSITY NOVEL EMITTER SOURCES Pennsylvania State University	N 36 02/05/91 \$597,838	A BARKER 91-NP-122	\$210,560 30/09/91 \$597,838
VACUUM MICROELECTRONICS FOR IMAGING DEVICES Texas A and M Research Foundation	N 36 02/05/91 \$500,183	D BARKER 91-NP-142	
SONIC PROPERTIES OF REFLECTIVITY TRANSITION METAL CARBIDES Orion Graduate Center for Study & Resch	N 36 02/05/91 \$321,751	BARKER 91-NP-129	
LIGHT AND PERTINENT CRYSTALS FOR IN SITU MEASUREMENTS AND COMPARISON WITH NUMERICAL SIMULATIONS Northwestern University	N 36 02/05/91 \$552,290	A BARKER 91-NP-135	\$183,323 30/09/91 \$552,290
HIGH FREQUENCY ALTERNATING VIBRATION TECHNIQUE TO COMPENSATE FOR RING LASER LOCK-IN Colorado School of Mines	N 24 21/05/91 \$144,100	SCHLOSSER 91-NP-162	
ANALYSIS OF THE EFFECTS OF SOLAR ACTIVITY INDICATORS Univ of New Hampshire	N 36 04/06/91 \$611,878	RADUSKI 91-NP-171	

REPORT DATE: 07/10/91

PROPOSAL STATUS REPORT (1 APR 91 - 30 JUL 91)
 AIR FORCE OFFICE OF SCIENTIFIC AND TECHNICAL
 INFORMATION, DE PHYSICAL AND BIOLOGICAL SCIENCES

PAGE 7

TITLE PI (CONT.) INSTITUTION	PROPOSAL STATUS REPORT (1 APR 91 - 30 JUL 91) AIR FORCE OFFICE OF SCIENTIFIC AND TECHNICAL INFORMATION, DE PHYSICAL AND BIOLOGICAL SCIENCES	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
QUANTUM COHERENT RADIATION SOURCE FROM LASER BASED FLUORESCENT HOSTS Colorado State University	Collins, George	SCHLOSSBER 91-NP-153	
MILLIMETER WAVE SOURCE DEVELOPMENT USING MODULATED ELECTRON BEAMS Cornell Univ. College of Engineering	David	BARKER 91-NP-145	
MEDIUM POWER-ION OSCILLATOR Univ of Washington	Johnson	KELLEY 91-NP-168	\$183,720 01/10/91 \$410,870
ANALYSIS, DESIGN, APPLICATION AND TESTING OF MINIATURIZED Devices and State-of-the-Art of Miniaturized	Johnson	BARKER 91-NP-120	
MOLECULAR FOR RECONSTITUTIONAL AND EXCITATION STUDIES Univ of Western Ontario	Hitchell	KELLEY 91-NP-166	
ADVANCES IN LASER COOLING State University of New York - Stony Brook	Hypocrite	KELLEY 91-NP-104	\$126,600 01/08/91 \$254,000
COMMITTEE ON SCIENCE National Academy of Sciences	Wurke	LEWONOWICZ 91-NP-163	
PHYSICAL INVESTIGATIONS OF TIME-DEPENDENT BEHAVIOR OF ELECTRON BEAMS IN GASES Colorado State University	Johnson	LUPU 91-NP-156	
EXISTENT MICROWAVE TRANSMISSION Y-PLASMA ELECTRON BEAMS Texas Tech University	Johnson	BARKER 91-NP-134	

REPORT DATE: 07/10/91

ANNUAL STATUS REPORT (1 APR 91 - 30 JUN 91)
AT PERCESSION OF SCIENTIFIC RESEARCH
ON STUDY OF PHYSICAL AND BIOCHEMICAL REACTIONS

TITLE FILE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
BASIC STUDIES IN PLASMA PHYSICS Rutgers - The State University	Libowitz Joel	2 36 03/06/91 \$472,375	BARKER 91-NP-169	
JOVIL MILLIMETER WAVE CYCLOTRON AMPLIFIER Massachusetts Institute of Technology	Schlosser Kenneth	N 36 02/05/91 \$300,000	BARKER 91-NP-117	
DOUBLE STRAP CYCLOTRON WAVE Massachusetts Institute of Technology	Seall George	N 36 02/05/91 \$600,000	BARKER 91-NP-121	
WAVE-DRIVE AMPLIFIER RESEARCH AT MILLIMETER WAVELLENGTHS Massachusetts Institute of Technology	Smith George	N 36 02/05/91 \$600,000	BARKER 91-NP-150	
PHOTONIC PHOTONICS: FUNDAMENTAL PHENOMENA AND DEVICE BEHAVIOR Massachusetts Institute of Technology	Smith George	N 36 06/06/91 \$1,020,000	SCHLOSSER 91-NP-174	\$23,800 01/09/91 \$1,078,800
MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS Massachusetts Institute of Technology	Smith George	2 12 10/06/91 \$90,000	BARKER 91-NP-175	
INTERACTIONS WITH A LASER BEAM AND THE MICROWAVE FILLS OF A CUSPION - INVERTED CUSPION PAIR Polytechnic Institute of New York	Kuo George	N 36 02/05/91 \$500,665	BARKER 91-NP-128	
MEASUREMENTS OF ATOMIC INTERACTIONS AND FREQUENCY STABILITY WITH A CYCLOTRON HYDROGEN MASER Massachusetts Institute of Technology	Smith George	N 16 13/04/91 \$238,346	KELLEY 91-NP-101	\$55,093 01/06/91 \$422,599
PHOTONIC PHOTONICS: GENERATION AND DETECTION OF PHOTONIC BEAMS Columbia University	Smith George	2 36 03/04/91 \$598,604	SCHLOSSER 91-NP-098	\$269,100 01/10/91 \$598,189

PI TITLE (CONT'D)	PI INSTITUTION	PI ADDRESS	PI CITY	PI STATE	PI ZIP	PI PHONE	PI FAX	PI E-MAIL	PI TYPE/MONTHS RECEIVED AMOUNT	PI STATUS PROGRAM MANAGER PROPOSAL #	PI START DATE TOT AMT
QUANTUM DYNAMICS OF THE SOLAR CYCLE	Columbia University	1150 Amsterdam Ave	New York	NY	10027	212-850-5000	212-850-5000	scott@physics.columbia.edu	R 36 30/04/91 \$676,000	A RADOSKI 91-NP-109	\$215,000 01/11/91 \$676,000
DEVELOPMENT OF A SUBMILLIMETER WAVELENGTH LASER CRYSTALLINE LASER	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	N 36 02/05/91 \$540,177	D BARKER 91-NP-127	
PROPOSED MODEL FOR MILLIMETER CROSSOVER-FIELD EFFECTS	Clarkson University	Clarkson University	Potsdam	NY	13699	716-437-7779	716-437-7779	clarkson@clarkson.edu	N 36 02/03/91 \$438,779	D BARKER 91-NP-133	
ENVIRONMENTAL CONDITIONS OF PROPOSED SOLAR SOLAR SOLAR	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	N 36 06/05/91 \$755,317	A RADOSKI 91-NP-154	\$241,976 01/10/91 \$755,317
ATOM FOUNTAIN MICROGRAV. STUDY	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	N 24 06/05/91 \$250,000	A KELLEY 91-NP-157	\$113,804 01/08/91 \$250,000
COOLING AND TRAPPING OF ATOMS AND PARTICLES	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	N 36 30/05/91 \$577,360	A KELLEY 91-NP-167	\$180,000 01/09/91 \$597,360
ULTRASHORT PICOSECOND ELECTRO-OPTIC SAMPLING	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	R 26 18/06/91 \$609,586	SCHLOSSER 91-NP-178	
SINGLE CRYSTALLINE BATED VACUUM MICROELCTRONIC FIELD EFFECTS	New Jersey Institute of Technology	1000 University Ave	Newark	NJ	07102	973-359-1000	973-359-1000	newark@njit.edu	N 36 02/05/91 \$473,719	D BARKER 91-NP-148	
EXPERIMENTAL & THEORETICAL STUDIES OF SOLAR WIND PLASMAS IN INTERPLANETARY SPACE	Stanford University	380 Serra Mall	Stanford	CA	94305	650-723-4000	650-723-4000	stanford@stanford.edu	N 36 18/06/91 \$923,000	D BARKER 91-NP-179	

REPORT DATE 07/15/91

PROPOSAL STATUS: 01 - 01 JUN 91
 MISSION: SCIENTIFIC RESEARCH
 DIRECTOR: PHYSICAL AND PHYSICAL SCIENCES

PAGE 10

TITLE
 FILE (COUNT)
 INSTITUTION

VACUUM MICRO-ELECTRONIC JOSEPHSON JUNCTIONS

JOSEPH A. AND UNIVERSITY

STERNOV THE MITCHELL J. HUGHES

Cornell University

ATOMIC AND MOLECULAR IMAGING WITH LIGHT

Cornell University

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 36 02/05/91 \$478,334	D BARKER 91-NP-118	
N 26 02/05/91 \$566,390	D BARKER 91-NP-138	
N 12 07/05/91 \$115,444	A SCHLOSSER 91-NP-155	\$20,000 01/09/91 \$115,444