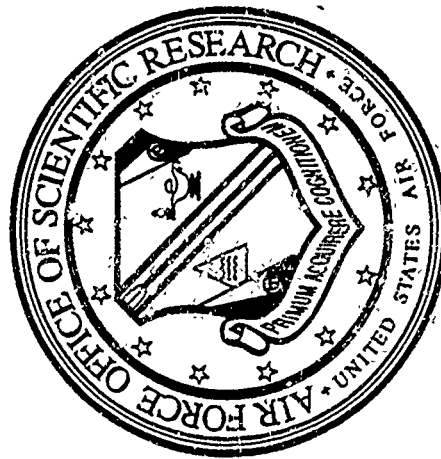




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RESEARCH PROPOSAL QUARTERLY STATUS REPORT



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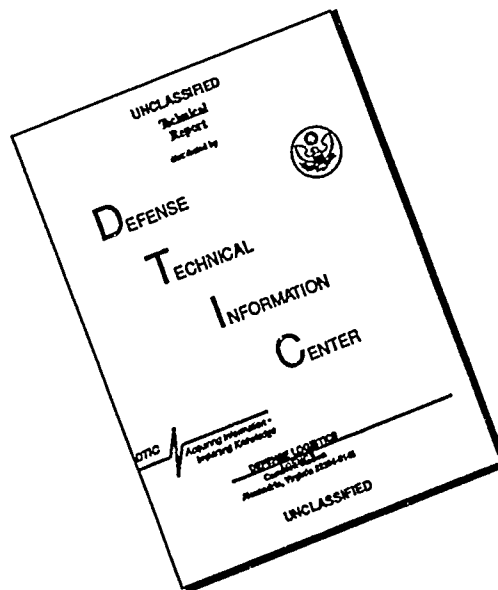
January - March 1990

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-90-0501	
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 Jan TO Mar 90	14. DATE OF REPORT (Year, Month, Day) April 90	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 ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL DEBRA L. TYRRELL		22b. TELEPHONE (Include Area Code) 202-767-1912	22c. OFFICE SYMBOL XOTD

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

April 1990

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PREPARED BY:
 DEBRA TYRRELL,
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This report

INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I ^{of the} Institution Index which lists the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that.

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphasis. (EDC)

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 Director of Laboratories, Air Force Systems Command.

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 unsolicited proposals originating 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.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., 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.

INITIATED - 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
BOLLING AIR FORCE BASE, DC 20332

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Deputy Director Col Arthur L. Pavel

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	EXT
Acting Director Lt Col George Haritos	4987
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Prog Mgr Dr Leonidas Sakell	4935
Prog Mgr Dr Spencer Wu	6962
Prog Mgr Dr Julian Tishkoff	0465
Prog Mgr Dr James McMichael	4936
Prog Mgr Maj Steven Boyce	6963
Prog Mgr Capt Henry Helin	0471

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Prog Mgr Dr Francis Wodarczyk	4963
Prog Mgr Dr Fred Hedberg	4963
Prog Mgr Dr Donald Ulrich	4963
Prog Mgr Dr. John Wilkes	4960
Prog Mgr Lt Col Larry W Burggraf	4960
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Dep Director Er Alar, Rosenstein	4933
Prog Mgr Dr Liselotte Schioler	4933
Prog Mgr Dr Harold Weinstockn	4933
Prog Mgr Dr Alan Craig	4931
Prog Mgr Maj Gernot Pomrenke	4931
Prog Mgr Dr Gerald Witt	4931

NL - DIRECTORATE OF LIFE SCIENCES

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Expert Consultant Dr John Jonides	5021
Prog Mgr Dr Alfred R. Fregly	5021
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NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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Prog Adv Dr Marc Jacobs	5027
Prog Mgr Arje Nachman	4939
Prog Mgr Dr Jon Sjogren	4940
Prog Mgr Dr Abraham Waksman	5028

NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE

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Prog Mgr Dr Howard Schlossberg	4906
Prog Mgr Dr. Henry R. Radoski	4906
Prog Mgr Lt Col James A. Lupo	4908

PART I

11

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
A.S.A. TECHNOLOGIES	KUTJ	ALBERT	S	90-NA-064		MARITOS
ADELPHI TECHNOLOGY, INC.	PIESTRUP	MELVIN	A	90-NE-092		LITTON
ADVANCED OPTICAL SYSTEMS	HARTMAN	RICHARD	L	90-NE-060		CRAIG
ADVANCED SURFACE TECHNOLOGY INC	LOH	IM-HOUNG		90-NC-101	D	ULRICH
AEROCHEM RESEARCH LABORATORIES INC	KEIL	DAVID	G	90-NE-072		LITTON
AEROSPACE CORPORATION	CUTLER	MELVIN	M	90-NM-135		WAKSMAN
	STAGE	JACK	A	90-NP-067		KELLEY
AEROSPACE MEDICAL RESEARCH LABORATORY	REE	KENNETH		90-NL-108	A	FREGLY
AIR FORCE AEROC PROPULSION LABORATORY	CURRAN	EDWARD	T	90-XO-009	A	CAVENDER
AIR FORCE INSTITUTE OF TECHNOLOGY	BRIDGMAN	CHARLES	J	90-XO-014	A	EWING
	WOSBARGER	NEIL	N	90-NA-119	A	HELIN
	PALAZOTTO	ANTHONY		90-NA-093		WU
AIRBORNE RESEARCH ASSOCIATES	MARKSON	RALPH	J	90-NC-185		STOBIE
ALFRED UNIVERSITY	FISCHMAN	GARY	S	90-NC-144	D	ULRICH
				90-NC-145	D	ULRICH
AMERICAL CHEMICAL SOCIETY	SCHULZE	WALTER	A	90-NC-143	D	ULRICH
AMERICAN CRYOPROBE	WARDER	SETH	R	90-NC-136	A	ULRICH
AMERICAN RESEARCH CORP OF VIRGINIA	PETERSON	DAVID	A	90-NE-100		WEINSTOCK
	WITNUPA	M	G	90-NE-080		PGRENKE
AMERICAN SOCIETY FOR COMPOSITES	WOLSEY	M.	G	90-NP-048	A	BARKER
ANALATON INC	LASKOWSKI	BARBARA	C	90-NC-146	A	HEIDBERG
ANALYTICS INCORPORATED	DICK	B		90-NE-049		WITT
APPLIED MICROWAVE CORPORATION	SONBERG	ALFRED	D	90-NL-065		TANGNEY
APPLIED MODERN TECHNOLOGIES CORP	BRUNFELDT	BRUCE	R	90-NL-068		FREGLY
APPLIED OPTICS	HAAS	DAVID	H	90-NL-067		PGRENKE
APPLIED SCIENCE, INC.	FLOOMER	WILLIAM		90-NE-094		TANGNEY
	HICKOK	IRIS		90-NE-090		CRAIG
	LAKE	J KYLE	L	90-NC-085		ULRICH
APPLIED SCIENCES CONSULTANTS, INC	YENDLER	MAX		90-NC-086		ULRICH
ARIZONA STATE UNIVERSITY	FERNANDO	BORIS		90-NA-058		BOYCE
	FERRY	M.J.S.		90-NC-159		STOBIE
ATLANTIC RESEARCH CORP	BRADLEY	DAVID	K	90-NE-134	A	WITT
	KING	CHARLES		90-NM-154	D	GLASSMAN
ATOM SCIENCES, INC.	THOMARD	MERRILL		90-NA-072		BIRKAN
AUSURN UNIVERSITY	BUCKHALTER	YORBERT		90-NE-064		LITTON
AUTOMATTA, INC.	AKES	JOHN	E	90-XO-010	A	CAVENDER
BELTRAN INC	SING	GREGORY	H	90-NE-096		CRAIG
BEN FRANKLIN INDUSTRIES	LURKIN	CONSTANCE		90-NE-073		WEINSTOCK
BERKELEY APPLIED SCIENCES & ENGR.	SHANIMATI	VALE	J	90-NP-051		BARKER
	PANAHANDEN	G.	R	90-NA-042		MARITOS
BERKELEY ENGINEERING RESEARCH INSTITUTE	RAZAVI	OMID		90-NA-039		MARITOS
BOSTON UNIVERSITY	RAHSIL	RAMA		90-NM-136		JACOBS
	HOMER	STEVEN		90-NC-133		ULRICH
	LEE	MEI-LING TANG		90-NM-231		SJOOREN
BOYS TOWN NATIONAL INSTITUTE	NEFF	DOMNA	L	90-NM-152		SJOOREN
BRANDEIS UNIVERSITY	PRATHER	PENNY		90-NL-103		TANGNEY
				90-NL-114		FREGLY

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
BRIGHAM YOUNG UNIVERSITY	RECKSTEAD		M		90-NA-087		BIRKAN
BROOKHAVEN NATIONAL LABORATORY	CARBONE		RALPH	W	90-XO-013	A	CAVENDER
BROWN UNIVERSITY	SURESH		SURRA		90-NA-120		HARITOS
CIM SYSTEMS, INC	PRUNCOMBSON		PRUCHYA		90-NM-155	D	GLASSMAN
CPS SUPERCONDUCTOR CORPORATION	HODGE		JAMES	D	90-NC-121		ULRICH
CALIFORNIA INSTITUTE OF TECHNOLOGY	C. CULICK		F.		90-NC-122		ULRICH
	COHEN		DONALD	E	90-NA-035	A	BIRKAN
	DIMOTAKIS		PAUL	S	90-NM-178	A	NACHMAN
	HORNUNG		MANS	E	90-NA-062	A	TISHKOFF
CAMBRIDGE HYDRODYNAMICS INCORPORATED	WIGDAL		ALEXANDER	A	90-NA-108		SAKELL
CARLETON COLLEGE	GALOTTI		KATHLEEN	M	90-NM-150	A	SJOGREN
CARNEGIE-MELLON UNIVERSITY	WOBURG		J.	F	90-NL-126		FREGLY
	KUMG		M.		90-NC-112		STOBIE
	PATTERSON		GARY	T	90-NC-218	A	HOLLAND
	SHREVE		STEVEN	D	90-NC-139		DAVIS
CENTER FOR NEURODIAGNOSTIC STUDY, INC.	GUISOAD		RAUL	E	90-NM-194		JACOBS
CHARLES EVANS & ASSOC.	COLVARO		CARL		90-NL-063		FREGLY
CHEMTECH SYSTEMS, INC.	GODIKANIN		M	L	90-NE-066		LITTON
					90-NE-054		WITT
					90-NE-055		WITT
					90-NE-065		LITTON
					90-NE-067		LITTON
					90-NE-081		POMRENKE
CHROMEX INC	GOSBELI		GARTH	W	90-NE-095		CRAIG
CLARKSON UNIVERSITY	AMAOI		GOODARZ		90-NA-113		WU
	ARAJIS		SIGURDS		90-NE-145	D	POMRENKE
	BAROUCH		EYTAN	A	90-NM-162		NACHMAN
	FRIBERG		STIG		90-NC-173		ULRICH
	WUANG		A B		90-NA-084		BOYCE
COLD SPRING HARBOR LAB OF QUANTITATIVE	HOCKFIELD		SUSAN	F	90-NL-090		TANGNEY
COLORADO RESEARCH DEVELOPMENT CORP.	MCCORMICK		STEPHEN		90-NM-191		NACHMAN
	PUGE		JOHN	W	90-NA-067		WU
COLORADO STATE UNIVERSITY	ADJON		JORGE	I	90-NL-052		FREGLY
	BRINGI		V		90-NC-102		STOBIE
	SRIVASTAVA		JAYA	N	90-NM-131		SJOGREN
COLUMBIA RESEARCH INSTRUMENTS CORP.	PRELAS		MARK	A	90-NE-061	A	CRAIG
COLUMBIA UNIVERSITY	FLYNN		GEORGE		90-NE-137		WITT
	MATIN		LEONARD		90-NL-057		TANGNEY
	STERN		DAVID	M	90-NL-081		CERVENY
	TURRO		NICHOLAS	J	90-NC-150		HEDBERG
COMPUTATIONAL MECHANICS COMPANY INC	TAORZYDLO		W	W	90-NA-050		WU
COMPUTATIONAL TECHNOLOGY DEVELOPMENT CORP	MCCHESENEY, JR.		RALPH	S	90-NA-069	A	GLASSMAN
COMPUTER AIDED PLAN & SCHEDULE INC.	MULTY		WILLIAM	G	90-NM-143		LITTON
CONSULTANT SPECIALIST, INC	POULSEN		PETER	D	90-NE-089		WU
COOK, R.F.	COOK		R	F	90-NA-075		BURGGRAF
CORNELL UNIVERSITY	COOPER		BARBARA	M	90-NC-097	D	GLASSMAN
CORPORATE PLANNING RESEARCH GROUP	BLEASON		WILLIAM		90-NM-170		WITT
COSORT DESIGNS, INC	COHEN		NATHANIEL	L	90-NE-110		

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INSTITUTION	INVESTIGATOR	PROPOSAL	STATUS	PH NAME
LAST NAME	FIRST NAME	MIDDLE		
CRYSTALLUME	SMART	90-NE-123		LITTON
JAINA	PUKITE	90-NM-156	D	GLASSMAN
DARTMOUTH COLLEGE	PRUSSER	90-NM-213	A	NACHMAN
DECISION RESEARCH	MACGREGOR	90-NL-124		FREGLY
DISPLAY TECH, INC	HANOSCHY	90-NC-104		ULRICH
CONANUE'S COMBUSTION TECHNOLOGY	CONANUE	90-NA-099	D	TISHKOFF
DREXEL UNIVERSITY	KESLER	90-NP-063		RADOSKI
DUKE UNIVERSITY	LOCKHEAD	90-NL-119		TANGNEY
	RUBIN	90-NL-107		FREGLY
EDA CONSULTANTS	SUNDARARAJAN	90-NA-047		WU
EASTERN SPACE & MISSILE CENTER	KENNEDY	90-NP-060	A	LUPO
ELECTRO-OPTIK CORPORATION	CHAN	90-NE-077		POMRENKE
ENERGY FEDERAL CORPORATION	STICKLES	90-NA-068		WU
ENGINEERING ANALYSIS SERVICES, INC	CHAI	90-NA-065		MARITOS
	TANG	90-NA-066		MARITOS
ENVIRONMENTAL PROTECTION AGENCY -- LAB	ZARDOGIAN	90-NL-088		CERVENY
EPITEK CORP--DEPT OF SE/Cs--UNIV NEVADA	VOMLICH	90-NC-123		ULRICH
ERLICH ASSOCIATES	EMRLICH	90-NP-069	A	SCHLOSSBER
ESSEX CORPORATION	KENNEDY	90-NL-072		TANGNEY
		90-NL-075		FREGLY
		90-NL-076		FREGLY
		90-NL-078		CERVENY
FM TECHNOLOGIES, INC	MAKO	90-NP-058		BARKER
		90-NP-059		BARKER
FERROFLUIDICS CORPORATION	RAJ	90-NC-124		ULRICH
FLORIDA ATLANTIC UNIVERSITY	COOPER	90-NM-206		SJOGREN
FLORIDA INTERNATIONAL UNIVERSITY	PELIN	90-NM-149		WAKSMAN
FLORIDA STATE UNIVERSITY	PAY	90-NC-178		STOBIE
		90-NC-180	W	STOBIE
FOSTER-MILLER, INC	DOMASH	90-NC-082	D	ULRICH
	KIVAR	90-NC-081	D	ULRICH
FOUR DIMENSIONS, INC	CHEN	90-NE-050		WITT
GCA ASSOCIATION	AGARMAL	90-NL-074		FREGLY
GALILEO FOUNDATION	PACE	90-NL-100		BERRY
GEL-TECH, INC.	NOGUEFS	90-NC-089		ULRICH
	SETH	90-NC-087		ULRICH
		90-NC-088		ULRICH
GENERAL RESEARCH CORP	WALLACE	90-NC-184		STOBIE
GENESIS RESEARCH	OWENS	90-NP-045		BARKER
GED-CENTERS INC	SMITH	90-NE-075		POMRENKE
GEORGE MASON UNIVERSITY	GOICOCHEA	90-NM-134		GLASSMAN
GEORGIA INSTITUTE OF TECH	PARSALJU	90-NL-104		FREGLY
	MCDONELL	90-NA-104		MARITOS
	SERFQZO	90-NM-188		GLASSMAN
	STRAHLE	90-NA-051	A	BIRKAN
GEORGIA TECH RESEARCH CORPORATION	FLANNERY	90-NP-074	A	KELLEY
GERMAN AEROSPACE RESEARCH ESTABLISHMENT	HEMHAUSER	90-NM-214	A	GLASSMAN
	STILLER	90-NA-074		MELIN

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
GORDON RESEARCH CORPORATION INC	ANTON	DAVID	L	90-NC-115		HEDBERG	
	CRUICKSHANK	ALEXANDER	M	90-NC-094	A	HEDBERG	
GUMBS ASSOCIATES, INC	WICKY	VINCENT	C	90-NC-113		KELLEY	
	SEKHAR	PRASANNA		90-NC-105	D	BURGGRAF	
M.C.C., SCIENCE & TECHNOLOGY INC.	GOLDFERG	P. CHANDRA		90-NC-105	D	ULRICH	
	MALACH	HARRIS	A	90-NC-142		ULRICH	
MCR INC. (L. WERNER INC.)	KOSLYN	DANIEL	S	90-MM-167	D	GLASSMAN	
HARVARD COLLEGE	CAVAYAGH	STEPHEN	M	90-ML-121		FREGLY	
HARVARD UNIVERSITY	FEJZ	PATRICK		90-ML-047		TANGNEY	
	MAKAYAMA	BARBARA	J	90-MM-183	A	WAKSMAN	
HOFFMATH	TINKHAM	KEN		90-ML-110	A	WAKSMAN	
	HOFFMAN	MICHAEL		90-NE-136	A	TANGNEY	
HONG KONG UNIVERSITY	CHOW	WILLIAM	C	90-ML-064		TANGNEY	
	HUGHES AIRCRAFT CO	C	L	90-ML-066		TANGNEY	
I SYSTEMS	WILLIAMSON	W.	S	90-NA-082		HARITOS	
	MUGHES	D. ALEXANDER		90-NA-036	A	BIRKAN	
ION THOMAS J. WATSON RESEARCH CENTER	KOSO	CLAUDIA	D	90-NE-113		POMRENKE	
	TESCHE	J. ALBERT		90-NE-109		WEINSTOCK	
IONWORKS	SCHULTZ	ALBERT	J	90-NC-090		ULRICH	
	GORDON	SALLIE	E	90-NE-089		LITTON	
IDAHO UNIVERSITY	MUMPE	DEAN	C	90-ML-123		FREGLY	
	SCIAMARELLA	CEGAR	A	90-MM-176		WAKSMAN	
ILLINOIS INSTITUTE OF TECHNOLOGY	CASSELMAN	STEVEN	M	90-NA-076		HARITOS	
	IMAGINATION WORKS	GEORGE		90-NE-098		WITT	
INTEGRATED APPLIED PHYSICS INC	KIRKMAN-AMENIYA	RAUL		90-MM-057		MARKER	
INTERFACE FOUNDATION OF NORTH AMERICA	LEPAGE	EDUARDO		90-MM-146		SJOGREN	
	SARAVIA	JAMES	T	90-NE-051		WITT	
INTERSCIENCE INC	WOG	VINAY		90-NE-078		POMRENKE	
	DAYAL	RICHARD	K	90-NA-117		HARITOS	
IOWA STATE UNIV OF SCIENCE AND TECH	MILLER	JOHN	A	90-MM-223		JACOBS	
	MOLLAM	P.		90-NE-079		POMRENKE	
J. A. WOOLLAN COMPANY	RAJDI	W.	M	90-MM-232		WACHMAN	
	SHARP, JR	RAY	J	90-NE-150		ROSENSTEIN	
JOHNS HOPKINS UNIVERSITY	KING	BRIAN		90-NE-120		SCHOLTER	
	KDC TECHNOLOGY CORPORATION	GARY	A	90-NA-038		HARITOS	
KACHINA TECHNOLOGIES, INC.	KLEIN	J		90-ML-073		FREGLY	
KLEIN ASSOCIATES, INC.	BOGDANOFF	J		90-ML-117		FREGLY	
KOZIN, BOGDANOFF & ASSOCIATES INC	TRALDI	LORENZO	J	90-NA-043	A	HARITOS	
	PUPZYNSKI	RYSZARD		90-MM-234		SJOGREN	
LASER PHOTONICS TECHNOLOGY INC	HWANG	JAMES	C	90-NC-125	D	ULRICH	
	LEHIGH UNIVERSITY			90-NC-126	A	ULRICH	
LINCOLN LABORATORY/MIT	AULL	BRIAN	F	90-NE-084	A	POMRENKE	
	LEWINE	JEFFREY		90-NE-141	A	POMRENKE	
LOS ALAMOS NAT'L LAB--APPL THEOR PHYS DIV	WATER II	WILLIAM	D	90-NE-130	A	CRAIG	
	CHINE	CHERYL	B	90-ML-122		FREGLY	
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)			J	90-NC-153		STOBIE	
				90-ML-121		FREGLY	

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
LOUISIANA STATE UNIVERSITY	W3		YEN KAM		90-MP-075		KELL-Y
LU (C.) LABORATORY	LU		CHIN-SHUN		90-MP-104		POMRENKE
MADAM INC	MARROCCO		MATTHEW	L	90-MC-084	D	ULRICH
MADDER RESEARCH DIV, MACKER & COMPANY	WACKER		WILLIAM	A	90-NA-070		WU
MARTIN GOFMAN ASSOCIATES	EAN		C	C	90-ME-119		CRAIG
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SINCLAIR		ROBERT		90-ME-152	A	WEINSTEIN
	ALLEN		JONATHAN		90-ME-135	A	WITT
	ARGON		A.S.		90-NA-054	A	HARITOS
	BENNEY		DAVID	J	90-NA-201	A	NACHMAN
	DUGUNDJI		JOHN		90-NA-116		WU
	FIELD		ROBERT	W	90-MC-138		WODARCZYK
	GRODZINSKY		ALAN	J	90-MC-092		CERVENY
	LEE		MIN-CHANG		90-MP-070	A	BASKER
	MARTINEZ-SANCHEZ		MANUEL		90-NA-052	A	BIRKAN
	OSMERSON		DANIEL	N	90-MC-113		FREGLY
	TEDROW		PAUL	M	90-MC-015	A	CAVENDER
	WILLIAMS		EARLE	R	90-MC-187		STOBIE
MATERIALS RESEARCH SOCIETY	HALLANCE		JOHN	B	90-ME-144	D	POMRENKE
					90-ME-146		WITT
					90-MC-141	D	HEBERG
MATIS INC	COPCORAN		EDWARD	W	90-MC-192		NACHMAN
	CLIKER		VLADIMIR	I	90-MP-055		BARKER
MCMAHAN ELECTRO-OPTICS, INC	MCMAHAN, JR		ROBERT	K	90-MP-059		MCNICHAE
MEMPHIS STATE UNIVERSITY	WIMBERLY		C RAY	T	90-MC-074	A	STOBIE
MESOSCALE ENVIRON SIMUL & OPER INC	WIGHT III		KENNETH		90-MC-089		FREGLY
MIAMI UNIVERSITY	STASSER		GAROLD	P	90-MP-047		BARKER
MICROWAVE NONLINEARITY INC	SIU		DANIEL	E	90-ME-093		CRAIG
MILLER (C.E.)	HILLER		C		90-ME-107		POMRENKE
MISSION RESEARCH	MOSTROM		MICHAEL	A	90-MP-046		BARKER
MISSION RESEARCH CORP	PAKER		LOUIS		90-MC-158	D	GLASSMAN
	PASOUR		JOHN	A	90-MP-052		BARKER
MOLECULAR TECHNOLOGIES, INC	CAZACA		MARIO		90-MC-107		ULRICH
MONTCLAIR STATE COLLEGE	TOWNSEND		DAVID	J	90-MC-059		TANGNEY
MORRIS BROWN COLLEGE	ANDERSON		GLORIA	L	90-MC-096		HEBERG
NASA - AMES RESEARCH CENTER	POGALLO		ROBERT	S	90-NA-102	A	MCNICHAE
NASA - GODDARD SPACE FLIGHT CENTER	EINHAUDI		FRANCO		90-MC-069		STOBIE
NASA - LEWIS RESEARCH CENTER	LEZBERG		ERWIN		90-NA-107	A	YISHKOFF
NASA - NAVAL AERONAUTICAL AND SPACE ADMIN	CAZLUCK		MIRIAM		90-MP-042	A	PERRIZO
NANOPHASE TECHNOLOGIES CORPORATION	WONDARD		JOHN		90-MC-127	D	ULRICH
NATIONAL ACADEMY OF SCIENCES	COX		LARRY		90-MC-214	A	NACHMAN
	SPINDEL		WILLIAM		90-MC-118	A	DAVIS
NATIONAL INST. OF STANDARDS & TECHNOLOGY	EGELHOFF, JR.		WILLIAM	F	90-MC-070		BURGGRAPH
	GAPONCZI		EDWARD	J	90-NA-098		WU
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	ZIEGLER		CONRAD	L	90-MC-161		STOBIE
NATIONAL SCIENCE FOUNDATION	FETH		JAY	S	90-MC-181	A	STOBIE
NAVAL POST GRADUATE SCHOOL	TRAUGOTT		STEVEN		90-NA-105	A	MCNICHAE
NAVAL RESEARCH LABORATORY	WALTERS		DONALD	L	90-MC-192	M	STOBIE
	FERNISER		RICHARD		90-MC-166		STOBIE

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
METROLOGIC, INC	JACOBS		VERNE	L	90-NC-167		STOBIE
	MURRAY		JAMES	S	90-NP-071		BARKER
	ORAN		ELAINE	S	90-NC-154	A	BURGGRAF
	PUMKE		LOTHAR	M	90-NC-106		TISHKOFF
NEW JERSEY INSTITUTE OF TECHNOLOGY	JOHNSON		JAMES	R	90-NC-171		STOBIE
	PHILLIPS		MANISH	C	90-NC-145	A	GLASSMAN
	WILLIAM		WILLIAM	C	90-NC-200		SJOGREN
	PAUL		MORDECAI	P	90-NC-163	D	STOBIE
NEW MEXICO STATE UNIVERSITY	BLAUSTEIN		MARSHA	J	90-NC-174		WAKSMAN
	BERGER		JOAN	G	90-NC-099		BERRY
	SNODGRASS		JOAN	G	90-NC-133		MACHMAN
	KRYZALKOWSKI		JOAN	G	90-NC-125		FREGLY
NIELSEN ENGINEERING AND RESEARCH CO	RODMAN		LAURE	C	90-NC-209		WAKSMAN
	LIN		YUN-LANG	K	90-NC-078	A	STOBIE
	MISHRA		UNESH	K	90-NC-152	A	STOBIE
	BOUDJOUK		PHILIP	J	90-NC-148		WITT
NORTH CAROLINA STATE UNIVERSITY	ODDUS		STEVEN	J	90-NC-098		MEDBERG
	ELMORIN		IRVING	N	90-NC-095		WU
	DATTA		BISWA	N	90-NC-060		CERVENY
	SELYTSCHKO		TED	Z	90-NC-061		CERVENY
NORTH DAKOTA STATE UNIVERSITY	QADAM		GHASSAN	Z	90-NC-180		JACOBS
	ROUTTENBERG		ARYEN	P	90-NC-077		MARITOS
	SHAN		SURENDRA	P	90-NC-173	D	WAKSMAN
	STAIR		PETER	C	90-NC-102		BERRY
NORTH EAST LONDON POLYTECHNIC	MERCHER		MICHAEL	C	90-NC-115		WU
	ROSEL		LAWRENCE	J	90-NC-095		BURGGRAF
	THOMPSON		TERENCE	R	90-NC-091		LITTON
	MCGRERRY		RICHARD	L	90-NC-157	D	GLASSMAN
NORTHWESTERN UNIVERSITY	EPSTEIN		ARTHUR	L	90-NC-069		TANGNEY
	MAYTON		WILLIAM	L	90-NC-071		WILKES
	LEFFERGER		THOMAS	L	90-NC-140		ULRICH
	LOZYKOWSKI		HENRYK	J	90-NC-080	A	CERVENY
OHIO STATE UNIVERSITY	ZAGORIAN		STEPHEN	A	90-NE-154		WEINSTOCK
	FULETHAN		CAMILLE	A	90-NE-143		POMRENKE
	HILLMAN		ROBERT	A	90-NE-111		TANGNEY
	OWARA		DANIEL	J	90-NC-083	D	ULRICH
OHIO STATE UNIV RESEARCH FOUNDATION	MAYO		LOUIS	J	90-NE-058		CRAIG
	HOLMES		J. FRED	E	90-NE-059	A	LITTON
	KUHLMAN		TIM	E	90-NE-124		STOBIE
	WACK		THOMAS	E	90-NC-131		MARITOS
OHIO STATE UNIVERSITY	GUJWADA		PATRICIA	E	90-NA-040		MARITOS
	WIENER		PATRICIA	E	90-NA-037		POMRENKE
	WACK		PATRICIA	E	90-NE-114		ULRICH
	WACK		PATRICIA	E	90-NC-109		WITT
ORAL HEALTH SERVICES INC	WACK		PATRICIA	E	90-NE-099		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
OREGON GRADUATE CENTER FOR STUDY & RESEARCH	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
PACIFIC X-RAY COMPANY, INC	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
PAGE AUTOMATED TELECOMMUNICATIONS SYSTEMS INC	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
PALISADES INSTITUTE FOR RESEARCH SERVICES	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE
	WACK		PATRICIA	E	90-NE-129		POMRENKE

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PENNSYLVANIA STATE UNIVERSITY	AMOS	ANTHONY	K	90-NA-091		WU	
PHOTON RESEARCH ASSOCIATES INC.	SMITH	GERALD	A	90-NP-054	A	KELLEY	
PHYSICAL OPTICS CORPORATION	TURNER	JAMES	D	90-NA-044		WU	
PHYSICAL RESEARCH	SAVANT	GAJENDRA		90-NE-071	D	LITTON	
PHYSICAL SCIENCES INC	WAVANT	GAJENDRA	T	90-NC-079		ULRICH	
PHYSICOM, INC	WAMOND	RICHARD	J	90-NE-097	A	WITT	
PHYSICS & ENGINEERING RES-ARCH	DAVIS	STEVEN		90-NC-188		MODARCZYK	
	AMIRA	DAVID		90-NE-090		LITTON	
	AMIR	AVNER		90-NP-049		BARKER	
PLASMATRON RESEARCH & DEVELOPMENT	POURFEZAI	KARIZ		90-NP-050		BARKER	
POLYTECHNIC UNIVERSITY	KUC	SPENCER	P	90-NE-105		POHRENKE	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN	V	J	90-NP-076		BARKER	
		V.	J	90-NE-056		CRAIG	
		PETER	R	90-NE-057		CRAIG	
PRINCETON UNIVERSITY	JAFFE	BRIAN	J	90-NE-062		CRAIG	
	PEISER	A	J	90-NE-063		CRAIG	
	SMITS	ROBERT	J	90-NL-046		CERVENY	
PURDUE UNIVERSITY	PROCTOR	JAMES	M	90-NL-054		FREGLY	
QUANSCAN, INC.	REJOY	MARI	N	90-NA-118		MCMICHAEL	
REDDY RESEARCH CONSULTANTS	PAQUETTE	EDWARD	L	90-NL-105		FREGLY	
REFRACTORY COMPOSITES	DVORAK	GEORGE	J	90-NE-069	D	LITTON	
RENSELAER POLYTECHNIC INSTITUTE	CAMPBELL	VINCENT		90-NM-169		GLASSMAN	
RESEARCH DEVELOPMENT CORPORATION	PRESTON	JACK		90-NA-041		HARITOS	
RESEARCH TRIANGLE INSTITUTE	RIXBY	ROBERT	E	90-NA-080		WU	
RICE UNIVERSITY	PEARSON	J.	B	90-NA-089		HARITOS	
	SPARDS	VLADIMIR	A	90-NL-062		FREGLY	
RISK EVALUATION & MANAGEMENT, INC	MASCH	PIERRE	R	90-NC-174	A	ULRICH	
ROCKWELL INTERNATIONAL, SCIENCE CENTER	HANSEN	THOMAS	V	90-NM-137		GLASSMAN	
RUTGERS - THE STATE UNIVERSITY	PAPATHOMAS	BERNARD	D	90-NM-175		JACORS	
RUTGERS - THE STATE UNIVERSITY (ENGR)	COLEMAN	LISA	C	90-NA-060		WU	
	KLEIN	IGDAL	S	90-NA-168		GLASSMAN	
	SOHAL	JOHN	M	90-NE-127	A	CRAIG	
S.D. SCHOOL OF MINES & TECHNOLOGY	HELSDON, JR	J. D.	K	90-NM-207	A	GLASSMAN	
SPIE - INTERNATIONAL SOC FOR OPTICAL ENGING	MACKENZIE	YOUNG	E	90-NL-098	A	TANGNEY	
SRI INTERNATIONAL	BAF	CAROL		90-NC-215		WACHMAN	
	GREEN	RAVINDER		90-NC-157		ULRICH	
	KACHRU	ENRIQUE	H	90-NA-097		WU	
	FUSPINT	DOM	A	90-NC-159		STUBIE	
	SHOCKEY	ROBERT	A	90-NC-190	A	ULRICH	
SRS TECHNOLOGIES/SYSTEMS TECHNOLOGY DIV	PILGRIM	ALAN	S	90-NC-196		DAVIS	
SAM TECHNOLOGY, INC.	GEVINS			90-WI-082		CERVENY	
				90-NE-082		CRAIG	
				90-NP-040		KELLEY	
				90-NM-197		WACHMAN	
				90-NA-057		HARITOS	
				90-NM-153	D	GLASSMAN	
				90-NL-070	A	TANGNEY	

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SATCON TECHNOLOGY CORPORATION	MOCKNEY	R		L	90-NE-070		LITTON
	SCHMIDT	HOWARD		K	90-NE-074		WEINSTOCK
SCHMIDT INSTRUMENTS					90-NE-076		POHRENKE
					90-NC-092	D	ULRICH
SCHMITT TECHNOLOGY ASSOCIATES	WALPERN	BRET		L	90-NE-052	A	WITT
	GRUSIN	HAROLD		L	90-NE-138		POHRENKE
SCIENTIFIC RESEARCH ASSOCIATES, INC.				S	90-NA-159	D	GLASSMAN
SEAGULL TECHNOLOGY, INC	KARNARKAR	JAY			90-NE-117		CRAIG
SIERRA LASER SYSTEMS, INC	MARC	MARCEL			90-NE-118		CRAIG
SOCIETY FOR INDUSTRIAL & APPLIED MATH	ALOCK	I.		E	90-NA-208		JACOBS
					90-NA-236		JACOBS
SOLID STATE MEASUREMENTS INC	BERKOWITZ	H		L	90-NE-115		POHRENKE
		HARRY		L	90-NE-116		POHRENKE
SOUTHERN ILLINOIS UNIVERSITY	BEROWITZ	H		L	90-NE-112		POHRENKE
	HILLARD	ROBERT		J	90-NE-122		LITTON
SOUTHERN METHODIST UNIVERSITY	SPECTOR	SCOTT		J	90-NA-198	A	NACHMAN
	KENNINGTON	JEFFREY		L	90-NA-224		GLASSMAN
SPARTA INC.	BERKOWITZ, PH.D.	HARVEY		M	90-NA-048		WU
SPARE INC.	JONES	ALBERT		F	90-NA-144	D	GLASSMAN
SPIRE CORPORATION	VERNON	STANLEY		M	90-NE-053		WITT
ST. CLOUD STATE UNIV -- DPT OF EARTH SCI	NASTPOM	GREGORY		D	90-NC-168	D	STOBIE
	WEISMAN	ROBERT		A	90-NC-164	D	STOBIE
STANFORD UNIVERSITY	SINFORD	THOMAS		D	90-NA-237		WAKSMAN
	EDNER	GORDON		M	90-ML-051	D	FREGLY
	FELDMAN	MARCUS		M	90-ML-128		TANGMEY
	GOODMAN	JOSEPH		M	90-NE-149		CRAIG
	KAILATH	THOMAS		M	90-NA-205		JOHREN
	KAPITULNIK	ANARON			90-NE-047	A	WEINSTOCK
	MDIN	PARVIZ			90-NA-090		MCMICHAEL
	PLOTKIN	SERGE		C	90-NA-235		GLASSMAN
	REYNOLDS	WILLIAM			90-NA-033		MCMICHAEL
	RSS	JOHN			90-NC-119		MODARCZYK
STATE UNIVERSITY OF NEW YORK	ULLMAN	JEFFREY		D	90-NA-163		WAKSMAN
	ZARE	RICHARD		N	90-NC-149	A	MODARCZYK
STATE UNIVERSITY OF NEW YORK	BARRETO	ERNESTO			90-NC-172		STOBIE
	KAPUR	DEEPAK			90-NA-189	A	WAKSMAN
STATE UNIVERSITY OF NEW YORK	VORNEGUT	BERNARD		A	90-NA-203		STOBIE
	RAXTER	LAURENCE			90-NA-056		JOHREN
	CHIANG	FU-PEN			90-NA-056		HARITOS
	GARVEY	JAMES			90-NC-111		MODARCZYK
STRUCTURAL ANALYSIS TECHNOLOGIES INC	YAMIL	HASAN			90-NA-083		WU
	STUDT	PETER		C	90-NA-030		WU
SUNOL SCIENCES CORP.	PESTER	HENRY			90-NE-121		WEINSTOCK
SUPERCONDUCTIVE ELECTRONICS INC	BOURNE	LINCOLN		J	90-NE-101		WEINSTOCK
SUPERCONDUCTOR TECHNOLOGIES INC	MOSKOWITZ	MICHAEL		V	90-NE-103		WEINSTOCK
	MEGRETE	GEORGE			90-NE-102		WEINSTOCK
SYRACUSE UNIVERSITY	WEISS	VOLKER		T	90-NA-100		HARITOS
SYSTEM PLANNING CORPORATION	LACATSKI	JAMES			90-NP-066		SCHLOSSER

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TRW INCORPORATED	FENDELL	FRANCIS	E	90-NA-079	A	TISHKOFF
TTL TECHNIQUES	KIM	J		90-NE-068		LITTON
TECHNICAL RESEARCH ASSOCIATES INC.	ADAMS-IPONS	GAIL		90-NL-086		CERVENY
TECHNION--ISRAEL INSTITUTE OF TECHNOLOGY	ALTUS	ELI	M	90-NA-088		MARITOS
TECHNO-SCIENCES, INC.	BENNETT	WILLIAM		90-NA-045		WU
	FLETCHER	CHARLES		90-NA-046	A	WU
TERRA TEK INC	MCLENNAN	J		90-NA-028		ROYCE
	ZHENG	ZIQUIONG		90-NA-029	A	WU
TETRA CORPORATION	FLIZCHOD	JUAN	M	90-NP-044		BARKER
TEXAS A AND M RESEARCH FOUNDATION	SWEBILSKO	WAYNE	L	90-NL-053		FREGLY
	CHEN	GOONG	L	90-NL-056		TANGNEY
TEXAS A AND M UNIVERSITY	ISHIHARA	OSAMU		90-NM-195	A	JACOBS
TEXAS TECH UNIVERSITY	ZIEMER	K.	M	90-NP-062		BARKER
TOPICAL TESTING INC.	FISHER	JOHN	H	90-NL-077		CERVENY
TRINITY UNIVERSITY	ALYSTONE	ROBERT	V	90-NL-109	A	CERVENY
TULANE UNIVERSITY	BERNOFSKY	CARL		90-NL-085		CERVENY
	SOD	GARY	A	90-NM-233		NACHMAN
UTD INC.	MAJTENYI	STEVEN	I	90-NA-085		BOYCE
ULTIMA CORPORATION	KRUTHMAN	CLINTON	O	90-NE-111		POMRENKE
UNDERSEA & HYPERBARIC MEDICAL SOCIETY	GREENBAUM, JR	LEON	J	90-NL-048	A	CERVENY
UNIV OF AKRON	RAY	RONALD	K	90-NC-194		ULRICH
UNIV OF ALABAMA	CHANDRASEKAR	V.		90-NC-176		STOBIE
	VIKRAM	CHANDRA	S	90-NC-148		STOBIE
UNIV OF ALASKA	FRITTS	DAVID	C	90-NC-162		STOBIE
UNIV OF ARIZONA	CUMMINS	DENISE	D	90-NL-094		FREGLY
	GLEZER	ARI	A	90-NA-109		MCMICHAEL
	KRIDER	E. PHILIP		90-NC-177		STOBIE
	WELOMAN	CHARLES	D	90-NC-195		STOBIE
UNIV OF ARKANSAS	CHANG	LOUIS	M	90-NL-058	A	CERVENY
	YAZ	NEIL		90-NM-220		JACOBS
UNIV OF CALIFORNIA	REDSHAD	PRABIR	J	90-NM-151		SJOGREN
	BURMAN	ANDREW		90-NC-161		SJOGREN
	DIENES	JAMES		90-NC-114		ULRICH
	EARTHMAN	JAMES	S	90-NE-131	A	ROSENSTEIN
	GIBSON	ELIZABETH	V	90-NM-222		JACOBS
	GWINN	P	G	90-NP-069		BARKER
	LADE	F	A	90-NA-110		BOYCE
	LICKIE	WILLIAM	C	90-NA-103	A	MARITOS
	LESTER, JR	YUE-POK		90-NC-134		DAVIS
	MACK	JAMES	L	90-NM-165		SJOGREN
	MCGAUGH	C. BRADLEY		90-NL-115		CERRY
	MOORE	MICHAEL		90-NC-135		MODARCZYK
	PAZZANI	ROBERT	D	90-NM-185		WAKSHAN
	PITCHIF	SHELDON	M	90-NE-087		ROSENSTEIN
	ROSS	RONALD	C	90-NM-184		SJOGREN
	POV-ROO	JASON	L	90-NL-079	D	TANGNEY
	SPEYER			90-NM-202		JACOBS

PART II

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF CALIFORNIA, SAN DIEGO	WETS	ROGER	J	90-NM-227		GLASSMAN
UNIV OF CENTRAL FLORIDA	SCHULTZ	SHELDON		90-ME-142	A	WEINSTOCK
UNIV OF CINCINNATI	LITTLEWOOD	IAN	M	90-NP-078		KELLEY
	HEINEMAN	WILLIAM	R	90-NC-129		WILKES
	STOJANOVIC	SROJAN		90-NM-179		NACHMAN
UNIV OF COLORADO	CATHY	W. THOMAS		90-NP-043	A	SCHLOSSBER
	FREHLICH	ROD		90-NC-147		STOBIE
	GLOVER	FRED		90-NM-230	A	GLASSMAN
	KASSEM	SLAVASH		90-NA-053		TISHKOFF
	LUTIGES	MARVIN		90-NA-094	A	WELIN
	NESEBITT	DAVID		90-NC-130		WODARCZYK
UNIV OF COLORADO AT DENVER	ALAGHMAND	GITA		90-NM-190		HOLLAND
UNIV OF CONNECTICUT	MATYCH	MOLODYMYR	R	90-NM-212	A	NACHMAN
UNIV OF DELAWARE	INTRAUB	HELENE		90-NL-095		FREGLY
UNIV OF DENVER	COOMBE	ROBERT	D	90-NC-186	A	WODARCZYK
UNIV OF FLORIDA	BARTLETT	RODNEY	J	90-NP-072	A	KELLEY
	HAGER	WILLIAM		90-NC-183		STOBIE
	HENCH	LARRY	L	90-NC-160		ULRICH
	THOMSON	EWEN	M	90-NC-156		STOBIE
UNIV OF ILLINOIS	BURTON	RODNEY	L	90-NA-061		BIRKAN
	HANACHCHIVAYA	N	S	90-NA-114		WU
	VERDEVEN	J.		90-NP-065		BARKER
UNIV OF KENTUCKY	WAYMAN	CLARENCE	M	90-ME-132		ROSENSTEIN
UNIV OF LOWELL	MCDONOUGH	JIM		90-NA-101	A	SAKELL
UNIV OF MANCHESTER	JONES	LEE	K	90-NM-204		SJUGREN
UNIV OF MANCHESTER INST OF SCI & TECH	LATMAN	JOHN		90-NC-151		STOBIE
	ILLINGWORTH	ANTHONY		90-NC-189		STOBIE
	SAUNDERS	CLIVE	P	90-NC-155		STOBIE
UNIV OF MARYLAND	DESTLER	WILLIAM	M	90-NP-064		BARKER
	FLIS	ROBERT		90-NP-077		BARKER
	STEINMAN	ROBERT	M	90-NM-181		SJUGREN
	STEWART	G.		90-NL-055		BERRY
	FRIEDMAN	AVNER	M	90-NM-225		NACHMAN
UNIV OF MINNESOTA	PICK, JP	HERBERT		90-NM-217	A	SJUGREN
UNIV OF MISSISSIPPI	MARSHALL	THOMAS	L	90-NL-050		FREGLY
UNIV OF MISSOURI	ZATRA	RAMESH	C	90-NC-179		STOBIE
	WELLAND	GRANT	V	90-NA-086		MARITOS
UNIV OF NEBRASKA	REHARBER	RICHARD		90-NM-229	A	NACHMAN
UNIV OF NORTH CAROLINA	MURPHY	KATHERINE	A	90-NM-226		JACOBS
	WALLSTEN	THOMAS	S	90-NM-139		JACOBS
UNIV OF NORTH TEXAS	ZIMNEPMAH	EARL		90-NL-118		FREGLY
UNIV OF NOTRE DAME	MULLER	THOMAS	J	90-NL-087		CERVENY
UNIV OF OKLAHOMA	ZAMAN	MUSGARRAF		90-NA-034		WELIN
UNIV OF OREGON	GEDISPACHED	MORTON	A	90-NA-036		BOYCE
	HINTMAN	DOUGLAS	L	90-NL-045	A	FREGLY
	KELLMAN	MICHAEL	E	90-NL-093		FREGLY
UNIV OF PENNSYLVANIA	DRYMS	NOAH	S	90-NC-137	A	DAVIS
				90-NM-210		WAKS4AM

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UNIV OF PITTSBURGH	WORRELL	WAYNE		90-MC-193		BURGGRAF
	WIRTLE	STEPHEN	C	90-NE-133		SCHIOLER
	LI	CHING-CJUNG		90-NL-106		FREGLY
	CRICKSHANK	ALEXANDER	M	90-MM-211	A	NACHMAN
UNIV OF RHODE ISLAND	ANDERS	M		90-NE-108		POMRENKE
	FISENBERG	RICHARD	W	90-NL-084		CERVENY
UNIV OF ROCHESTER	NELSON	RANDAL	C	90-NC-099		ULRICH
	TOUR	JAMES	M	90-MM-199		HOLLAND
UNIV OF SOUTH CAROLINA	BAUGRY	MICHEL		90-NC-191		ULRICH
UNIV OF SOUTHERN CALIFORNIA	CHENG	H.	K	90-NL-044		BERRY
	HO	BRUCE	M	90-MM-196		NACHMAN
	KOEL	L	E	90-NA-031	A	MCMICHAEL
	PEDEKOPP	FIDAU	U	90-NC-116		BURGGRAF
	UDWADIA	ROBERT		90-NA-032	A	MCMICHAEL
		STEPHEN	B	90-NA-081		WU
UNIV OF SOUTHERN CALIFORNIA (ELC ENG)	WELCH	STEPHEN	R	90-NA-112		WU
	FORREST	JAMES		90-NL-112		TANGNEY
UNIV OF STRATHCLYDE (SCOTLAND)	MCHELVE	SEN	G	90-NE-083		POMRENKE
UNIV OF TENNESSEE	RENNIGHOFF	JAMES	K	90-NA-092		WU
UNIV OF TEXAS	CHAMPERS	JAMES	P	90-MM-160	A	JACOBS
	PARSONS	LAWRENCE	M	90-NA-055		WU
UNIV OF UTAH	MCLEFE	JAMES	W	90-XO-012	A	CAVENDER
	ELLIAS	E	S	90-NL-120		FREGLY
UNIV OF WASHINGTON	LYOU	KUD-NANNG		90-NL-091	A	TANGNEY
	BAKER	MARCIA	B	90-NA-073		HARITGS
	RESIDENTIAL	ROBERT	E	90-NC-175		STOBIE
	HOPPS	PETER	V	90-MC-165	W	STOBIE
UNIV OF WISCONSIN	PALMER	JOHN		90-NA-079	D	TISHKOPF
	SALEM	YU	M	90-NC-120		STOBIE
	SCHARER	SAHAA E.	A	90-NL-096		FREGLY
	STEMPJO	JOHN	E	90-MM-177	D	GLASSMAN
UNIV OF WYOMING	STELMACH	MARSHALL		90-NP-061		SCHLOSSER
	CCON	GEORGE	E	90-NP-073		BARKER
UNIVERSAL ENERGY SYSTEMS INC	JGZAT	DENNIS	M	90-MM-150		NACHMAN
UNIVERSITY OF ALABAMA	RIGGS	ALBERT	W	90-NL-101		TANGNEY
UNIVERSITY OF STIRLING	ROSS	MELEN	E	90-NE-133	A	SCHIOLER
UTAH STATE UNIVERSITY	WALKER	HOMER	F	90-MM-049		WITT
VANDERBILT UNIVERSITY	POURNE	JOHN	R	90-XO-011	A	CAVENDER
VERMONT PHOTOGRAPHICS, INC	WKSNO, JR.	JOHN	P	90-NL-116		TANGNEY
VIRGINIA COMMONWEALTH UNIVERSITY	WPOSS	MICHAEL	E	90-MM-186	A	NACHMAN
VIRGINIA POLYTECHNIC INSTITUTE STATE UNIV	KIMINSKI	MORBERT	S	90-NE-182		WAKSMAN
	DESU	SESHU	S	90-NE-147	A	WEINSTOCK
	HANNSEN	KENKETH	S	90-NP-056		BARKER
	LI-RESCU	LIVIU		90-NL-049		CERVENY
	RAHMAN	SAIFUR		90-NE-128		SCHIOLER
				90-MM-228		JACOBS
				90-NA-063		HARITOS
				90-MM-138		SJGGREN

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
VISION SCIENCES RESEARCH CTR	SIMPSON	ROGER	L	90-NA-111		M. IN
WADDAN SYSTEM	GINSBURG	ARTHUR	P	90-NL-071	A	TANGNEY
WASHINGTON STATE UNIVERSITY	HOWELL	WILLIAM		90-NE-126		WITT
WASHINGTON STATE UNIVERSITY	MICELIN	ROBERT		90-NM-148		GLASSMAN
WASHINGTON STATE UNIVERSITY	ELLIOTT	DAVID	L	90-NM-171		JACOBS
WEST VIRGINIA UNIVERSITY	WEISS	GUIDO		90-NM-219	A	NACHMAN
WEST VIRGINIA UNIVERSITY	DRIVEGI	SUREN	N	90-NE-086		ROSENSTEIN
WESTON CROY F.D., INC	MUSHON	JUDITH	M	90-NE-151		ROSENSTEIN
WICHITA STATE UNIVERSITY	HOMMERTZHEIM	DOON		90-NL-083		CERVENY
WRIGHT STATE UNIVERSITY	PUJARA	L.	R	90-NM-221		WAKSMAN
VALE UNIVERSITY	PROBER	DANIEL	E	90-NM-187		JACOBS
	TARR	MICHAEL	J	90-NE-140	A	WEINSTOCK
				90-NL-097		TANGNEY

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RESEARCH ON ELECTRON-CYCLOTRON-RESONANCE PLASMA ACCELERATION CALIFORNIA INSTITUTE OF TECHNOLOGY	F. C. CULICK	R 12 11/01/90 \$45,000	A BIRKAN 90-NA-035	\$45,000 15/04/90 \$45,000
IONIZED CLUSTER BEAMS FOR SPACE PROPULSION HUGHES AIRCRAFT CO	W. WILLIAMSCH	N 12 11/01/90 \$59,338	A BIRKAN 90-NA-036	\$22,267 01/03/90 \$59,338
FRACTAL IMAGE COMPRESSION OF PAYLEIGH, PAMAM, LIF AND LV DATA IN TURBULENT REACTING FLOW GEORGIA INSTITUTE OF TECH	STRAMLE WARREN	R 12 16/01/90 \$100,001	A BIRKAN 90-NA-051	\$99,966 30/09/90 \$100,001
NONEQUILIBRIUM AND RADIATION IN MPD PLASMAS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MANUEL MARTINEZ-SANCHEZ	R 09 17/01/90 \$54,790	A BIRKAN 90-NA-052	\$54,790 01/03/90 \$54,790
LIQUID ROCKET PROPULSION WITH ALTERN ALUMINUM SPRAY COMBUSTION UNIV OF ILLINOIS	ROONEY MURTON	N 36 24/01/90 \$361,755	BIRKAN 90-NA-061	
PROPOSAL FOR EXAMINATION OF CHEMICAL APPROACHES TO STABILIZING COMPOSITE PROPELLANT COMBUSTION ATLANTIC RESEARCH CORP	MERRILL KING	N 12 30/01/90 \$80,532	BIRKAN 90-NA-072	
DISTRIBUTED COMBUSTION IN SOLID PROPELLANTS BRIGHAM YOUNG UNIVERSITY	BECKSTEAD M	N 24 15/02/90 \$104,568	BIRKAN 90-NA-087	
(SBR) CONSTITUTIVE MODELING OF PORO-ELASTO-PLASTIC BEHAVIOR OF HIGH STRENGTH CONCRETE TERRA TEK INC	J MCLENNAN	N 06 09/01/90 \$50,000	BOYCE 90-NA-028	
(SBR) APPLICATION OF MECHANICS OF DISPERSE SYSTEMS TO DISCONTINUOUS COMPOSITE MATERIALS APPLIED SCIENCES CONSULTANTS, INC	BOBIS YENDLER	N 06 22/01/90 \$50,000	BOYCE 90-NA-058	

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SEISMIC CORE TESTS IN A PARTICULATE ASSEMBLY CLARKSON UNIVERSITY	HUANG A B	N 24 13/02/90 \$142,903	BOYCE 90-NA-084	
INVESTIGATION OF THE INTERFACE PHENOMENA DUE TO INTERACTION OF UNDERGROUND NUCLEAR SMOKESTACKS WITH MATERIAL BOUNDARIES UTD INC.	STEVEN MUSGARRAF	N 36 14/02/90 \$289,162	BOYCE 90-NA-095	
INVESTIGATION OF THE CHARACTERISTIC STATES OF COHESIONLESS SOIL AND CONSTITUTIVE MODELING UNIV OF OKLAHOMA	ZAMAN	N 24 26/02/90 \$130,255	BOYCE 90-NA-096	
EXPERIMENTAL STUDY OF NON-ASSOCIATED FLOW AND INSTABILITY OF FRICTIONAL MATERIALS UNIV OF CALIFORNIA	LADE P	N 24 15/03/90 \$191,948	BOYCE 90-NA-110	
(SBIR) NONLINEAR DYNAMIC RESPONSE STUDY FOR COATED CARBON-CARBON COMPOSITES PDA ENGINEERING	MACK THOMAS	N 06 16/01/90 \$52,528	MARITOS 90-NA-037	
(SBIR) NOVEL INTERNAL MICRO-INSPECTION OF MATERIALS WITH SEM KACHINA TECHNOLOGIES, INC.	FISHBINE BRAND	N 06 16/01/90 \$50,000	MARITOS 90-NA-038	
(SBIR) DEVELOPMENT OF A DAMAGE THEORY FOR FATIGUE ANALYSIS OF FIBER-REINFORCED COMPOSITE SHELLS BERKELEY APPLIED SCIENCE & ENGR.	PANMANDEW M	N 06 16/01/90 \$45,842	MARITOS 90-NA-039	
(SBIR) THERMO-CHEMICAL-STRUCTURAL ANALYSIS OF CARBON-PHENOLICS WITH PORE PRESSURE AND PYROLYSIS EFFECTS PDA ENGINEERING	KUHLMANN TIM	N 06 16/01/90 \$50,535	MARITOS 90-NA-040	
(SBIR) MECHANICS OF FIBER-REINFORCED CERAMIC-MATRIX COMPOSITES REFRACTORY COMPOSITES	PAQUETTE EDWARD	N 06 16/01/90 \$4,990,226	MARITOS 90-NA-041	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR) DEVELOPMENT OF AN ADVANCED CONTINUUM THEORY FOR FIBER-REINFORCED COMPOSITES BERKELEY APPLIED SCIENCES, INC.	G.	N 06 16/01/90 \$49,152	HARITOS 90-NA-042	949,922 05/07/90 \$49,922
(SBIR) REACTION RATE ENGINEERING MODELS OF FATIGUE CRACK GROWTH KOLIN, BOGDANOFF & ASSOCIATES INC	J	N 06 16/01/90 \$49,922	A HARITOS 90-NA-043	949,922 05/07/90 \$49,922
MECHANICAL PROPERTIES OF POROUS, HIGH-TEMPERATURE STRUCTURAL MATERIALS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ARGON	N 36 22/01/90 \$545,039	HARITOS 90-NA-054	
THREE-DIMENSIONAL ANALYSIS OF CRACK TIP FIELDS IN FIBER- REINFORCED COMPOSITES STATE UNIVERSITY OF NEW YORK	CHIANG FU-PEN	N 36 22/01/90 \$369,681	HARITOS 90-NA-056	
MICROSTRUCTURE/PROPERTY RELATIONSHIPS FOR CERAMIC MATRIX COMPOSITES SRI INTERNATIONAL	SHOCKEY DON	N 36 22/01/90 \$4,626,950	HARITOS 90-NA-057	
METHODS OF ANALYSIS AND SOLUTIONS OF STATICS AND KINETICS OF CRACKED LAMINATED COMPOSITE AND REINFORCED PLATES AND SHELLS VIRGINIA POLYTECHNIC INST & STATE UNIV	LIVIU LIVIU	N 24 24/01/90 \$165,822	HARITOS 90-NA-063	
(SBIR) TOTAL FATIGUE LIFE PREDICTION METHOD A.S.K. TECHNOLOGIES	KUO ALBERT	N 06 29/01/90 \$49,965	HARITOS 90-NA-064	
(SBIR) TOUGHENING MECHANISMS AND RESIDUAL STRESSES IN CERAMIC MATRIX COMPOSITES ENGINEERING ANALYSIS SERVICES, INC	CHAI LI	N 06 29/01/90 \$49,998	HARITOS 90-NA-065	
(SBIR) MECHANICS OF INTERFACES IN CERAMIC MATRIX COMPOSITES ENGINEERING ANALYSIS SERVICES, INC	TANG HUANQUI	N 06 29/01/90 \$49,998	HARITOS 90-NA-066	

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FAILURE CRITERIA IN LAMINATES BASED ON A 3-D MICROMECHANICS CONSIDERATION UNIV OF UTAH	FOLIAS	R 12 30/01/90 \$60,533	A MARITOS 90-NA-073	960,738 01/06/90 960,533
MESOMECHANICAL INVESTIGATION OF CREEP IN METAL-MATRIX COMPOSITES ILLINOIS INSTITUTE OF TECHNOLOGY	SCIAMMARIELLO	M 24 02/02/90 \$387,574	MARITOS 90-NA-076	
COMPUTATIONAL METHODS FOR MATERIAL FAILURE PROCESSES NORTHWESTERN UNIVERSITY	RELYTSCHKO	M 36 02/02/90 \$260,026	MARITOS 90-NA-077	
UTAH SYMPOSIUM ON INELASTIC DEFORMATION OF COMPOSITE MATERIALS RENSELAER POLYTECHNIC INSTITUTE	DVORAK	M 01 02/02/90 \$10,000	MARITOS 90-NA-080	
A HYBRID ANALYSIS FOR MICROMECHANICAL DAMAGE CHARACTERIZATION OF COMPOSITES BASED ON FRACTURE AND CONTINUUM DAMAGE MECHANICS HONG KONG UNIVERSITY	CHOW	M 36 02/02/90 \$260,233	MARITOS 90-NA-092	
SUPPORT FOR THE 22ND MIDWESTERN MECHANICS CONFERENCE UNIV OF MISSOURI	BATRA	M 12 15/02/90 \$23,594	MARITOS 90-NA-086	
FATIGUE-CREEP INTERACTION AND GOODMAN DIAGRAM BY A COHESIVE MICRO MECHANICAL MODEL TECHNION--ISRAEL INSTITUTE OF TECHNOLOGY	ALTUS	M 12 20/02/90 \$30,960	MARITOS 90-NA-088	
UTAH SYMPOSIUM ON INELASTIC DEFORMATION OF COMPOSITE MATERIALS RENSELAER POLYTECHNIC INSTITUTE	DVORAK	M 12 20/02/90 \$10,000	MARITOS 90-NA-089	
NONDESTRUCTIVE FATIGUE DAMAGE MEASUREMENT WITH MULTIPLE FREQUENCY EDDY CURRENT TECHNIQUES SYRACUSE UNIVERSITY	WEISS	M 12 27/02/90 \$132,928	MARITOS 90-NA-100	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PARTIAL SUPPORT FOR A WORKSHOP ON "DAMAGE MECHANICS IN COMPOSITE MATERIAL DESIGN" UNIV OF CALIFORNIA	LECKIE F	N 09 07/03/90 \$10,024	A HARITOS 90-NA-103	\$10,024 01/07/90 \$10,024
LIFE PREDICTION CONCEPTS FOR CERAMIC MATRIX COMPOSITES GEORGIA INSTITUTE OF TECH	MCDOWELL DAVID	N 36 07/03/90 \$625,002	HARITOS 90-NA-104	
STUDY IN MECHANICAL DAMPING IN AIRCRAFT TIRE MATERIAL IOWA STATE UNIV OF SCIENCE AND TECH	DAYAL VINAY	N 36 20/03/90 \$232,460	HARITOS 90-NA-117	
FAILURE RESISTANCE OF HIGH TEMPERATURE COMPOSITES BROWN UNIVEPSITY	SURESH SUBRA	N 36 29/03/90 \$360,000	HARITOS 90-NA-120	
SUSTAINED AND CONTROLLED LIFT UNIV OF NOTRE DAME	MUELLER THOMAS	N 38 09/01/90 \$230,259	MELIM 90-NA-034	
INFLUENCE OF LARGE PEVOLD'S NUMBER VARIATIONS ON THE DYNAMIC STALL CHARACTERISTICS OF OSCILLATING AIRFOILS GERMAN AEROSPACE RESEARCH ESTABLISHMENT	GIEBLER WOLFGANG	N 24 30/01/90 \$200,000	MELIM 90-NA-074	
UNSTEADY SEPARATED FLOWS: EMPIRICAL MODEL AND CONTROL UNIV OF COLORADO	LUTTGES MARVIN	R 30 22/02/90 \$359,491	A MELIM 90-NA-094	\$249,446 01/06/90 \$359,491
MEASUREMENT AND CONTROL OF HEAT TRANSFER IN STEADY AND UNSTEADY TURBULENT SEPARATED FLOW VIRGINIA POLYTECHNIC INST & STATE UNIV	SIMPSON ROGER	N 36 15/03/90 \$255,000	MELIM 90-NA-111	
AN EXPERIMENTAL INVESTIGATION OF FORCES ON STORES DURING SEPARATION AIR FORCE INSTITUTE OF TECHNOLOGY	MOSBARGER NEIL	N 18 28/03/90 \$20,000	A MELIM 90-NA-119	\$20,000 01/04/90 \$20,000

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CONTROL OF ASYMMETRIC JET UNIV OF SOUTHERN CALIFORNIA	HO	N 24 09/01/90 \$97,826	A MCMICHAEL 90-NA-031	\$59,529 01/05/90 \$97,826
SEARCH FOR CHAOS IN FREE SHEAR FLOWS UNIV OF SOUTHERN CALIFORNIA	REDKOPP	N 24 09/01/90 \$280,598	A MCMICHAEL 90-NA-032	\$141,468 01/05/90 \$280,598
TURBULENT FLOW CONTROL STANFORD UNIVERSITY	REYNOLDS	N 36 09/01/90 \$453,000	MCMICHAEL 90-NA-033	
INVESTIGATION OF TURBULENT FLOW FIELDS USING HOLOGRAPHIC IMAGERY MEMPHIS STATE UNIVERSITY	WIMPERLY	N 24 22/01/90 \$182,797	MCMICHAEL 90-NA-059	
NUMERICAL STUDY OF A THREE-DIMENSIONAL TURBULENT BOUNDARY LAYER STANFORD UNIVERSITY	MOIN	R 17 21/02/90 \$127,125	MCMICHAEL 90-NA-090	\$20,000 14/03/90 \$20,000
NASA-AMES COLLABORATIVE COMPUTER SUPPORT NASA - AMES RESEARCH CENTER	ROGALLO	N 06 06/03/90 \$40,000	A MCMICHAEL 90-NA-102	\$10,000 15/03/90 \$10,000
IUTAM SYMPOSIUM "FLUID MECHANICS OF STIRRING AND MIXING" NATIONAL SCIENCE FOUNDATION	TRAUGOTT	N 06 12/03/90 \$10,000	A MCMICHAEL 90-NA-105	
AN EXPERIMENTAL STUDY OF MIXING TRANSITION IN A PLANE SHEAR LAYER USING AMPLITUDE, PHASE, AND PULSED MODULATED EXCITATION UNIV OF ARIZONA	GLEZER	R 12 15/03/90 \$62,558	MCMICHAEL 90-NA-109	
WORKSHOP ON NEW APPROACHES TO EXPERIMENTAL TURBULENCE RESEARCH PRINCETON UNIVERSITY	SMITS	N 12 28/03/90 \$10,350	MCMICHAEL 90-NA-118	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
AN ADDITIVE TURBULENT COMPOSITION OF THE NAVIER-STOKES EQUATIONS IMPLEMENTED ON HIGHLY PARALLEL COMPUTER SYSTEMS UNIV OF KENTUCKY	JIM MCDONOUGH	N 12 02/03/90 \$122,072	A SAKELL 90-NA-101	\$122,072 05/06/90 \$122,072
RESEARCH IN HIGH ENTHALPY GASDYNAMICS				
CALIFORNIA INSTITUTE OF TECHNOLOGY	HORNUNG	N 06 15/03/90 \$129,809	SAKELL 90-NA-108	
DEVELOPMENT AND APPLICATIONS OF THE IMPROVED GREEN LINEARIZATION TECHNIQUE UNIV OF COLORADO	KASSEMI SLAVASH	N 24 19/01/90 \$71,948	TISHKOFF 90-NA-053	
CHEMICAL REACTIONS IN TURBULENT MIXING FLOWS				
CALIFORNIA INSTITUTE OF TECHNOLOGY	DIMOTAKIS PAUL	N 24 24/01/90 \$967,734	A TISHKOFF 90-NA-062	\$475,974 01/05/90 \$967,794
INITIATION AND MODIFICATION OF REACTION BY ENERGY ADDITIONS: INVESTIGATION OF KINETIC AND TRANSPORT PHENOMENA TRW INCORPORATED	FENDLELL FRANCIS	R 36 02/02/90 \$444,147	A TISHKOFF 90-NA-078	\$19,852 01/08/90 \$408,473
EXPONENTIAL AND COMPRESSIBLE TRANSVERSE				
UNIV OF WASHINGTON	PREIDENTHAL ROBERT	R 24 02/02/90 \$159,758	D TISHKOFF 90-NA-079	
DEVICE FOR PRODUCING OXYGEN ENRICHED COMBUSTION AIR				
DONAHUE'S COMBUSTION TECHNOLOGY	DONAHUE LEONARD	N 36 27/02/90 \$1,599,000	D TISHKOFF 90-NA-099	
NUMERICAL STUDIES OF THE RAM ACCELERATOR				
NAVAL RESEARCH LABORATORY	GRAN ELAINE	N 36 12/03/90 \$300,000	A TISHKOFF 90-NA-106	\$100,000 01/06/90 \$300,000
RAM ACCELERATOR RESEARCH				
NASA - LEWIS RESEARCH CENTER	LEZBERS ERWIN	N 05 14/03/90 \$125,000	A TISHKOFF 90-NA-107	\$125,000 21/03/90 \$125,000

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR) STATISTICAL STUDY OF STRESS-INDUCED MICROSTRUCTURES IN SELECTED ROCK AND CONCRETE TERRA TEK INC	ZHENG ZIJUIONG	N 06 09/01/90 \$50,000	A WU 90-NA-029	\$50,000 05/07/90 \$50,000
(SBIR) MEASUREMENT OF DYNAMIC STRENGTH PROPERTIES SUNOL SCIENCES CORP.	STUDT PETER	N 06 09/01/90 \$49,936	WU 90-NA-030	
(SBIR) ADVANCED SYNCLIC AND PARALLEL PROCESSING FOR MULTIBODY DYNAMICS CAPABILITIES PHOTON RESEARCH ASSOCIATES INC.	TURNER JAMES	N 06 16/01/90 \$49,981	WU 90-NA-044	
(SBIR) NONLINEAR DYNAMICS AND ADAPTIVE CONTROL FOR PRECISION ATTITUDE REGULATION OF SPACE STRUCTURES TECHNO-SCIENCES, INC.	BENNETT WILLIAM	N 06 16/01/90 \$57,325	WU 90-NA-045	
(SBIR) CAD OF STRUCTURES USING COMPOSITE MATERIALS TECHNO-SCIENCES, INC.	FLETCHER CHARLES	N 06 16/01/90 \$57,875	A WU 90-NA-046	\$0 05/07/90 \$49,970
(SBIR) UNCERTAINTIES IN STRUCTURAL RELIABILITY PREDICTIONS EDA CONSULTANTS	SUNDARARAJAN C. RAO	N 06 16/01/90 \$49,725	WU 90-NA-047	
(SBIR) CONSTITUTIVE EQUATIONS FOR INFLATABLE MEMBRANE SHELL STRUCTURES SPARTA INC	BERKOWITZ, PH.D. HARVEY	N 06 16/01/90 \$74,768	WU 90-NA-048	
(SBIR) MECHANICALLY-FASTENED JOINTS IN CERAMIC-MATRIX COMPOSITES REFRACTORY COMPOSITES	PAQUETTE EDWARD	N 06 16/01/90 \$47,996	WU 90-NA-049	
(SBIR) NEW MICROASPERITY-BASED MODELS OF CONTACT, FRICTION AND DAMAGE OF METALLIC INTERFACES COMPUTATIONAL MECHANICS COMPANY INC	THORZYLO W	N 06 16/01/90 \$4,997,236	WU 90-NA-050	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PULSE RESPONSE BASED CONTROL FOR MINIMUM TIME MANEUVER OF FLEXIBLE SPACECRAFT UNIV OF TEXAS	JEFFREY BENNIGHOF	N 36 22/01/90 \$256,981	A WU 90-NA-055	\$56,013 01/07/90 \$115,344
NOVEL APPROACH FOR STRUCTURAL MECHANICS PROBLEMS WITH STOCHASTICITY RICE UNIVERSITY	POL SPANOS	N 36 22/01/90 \$271,749	WU 90-NA-060	
(SBIR) ALGEBRAIC MULTIPLAQUE (AMS) FOR LARGE-SCALE STRUCTURAL ANALYSIS COLORADO RESEARCH DEVELOPMENT CORP.	JOHN RUSE	N 06 29/01/90 \$49,917	WU 90-NA-067	
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES AND CONCEPTS RELATING TO STRUCTURES ENERGY FEDERAL CORPORATION	A STICKLES	N 06 29/01/90 \$39,791	WU 90-NA-069	
(SBIR) MULTIDISCIPLINARY FINITE-ELEMENT ANALYSIS FOR IMPROVED STRUCTURAL SYSTEMS COMPUTATIONAL TECHNOLOGY DEVELOPMENT CORP	RALPH MCCHESNEY, JR.	N 06 29/01/90 \$42,000	WU 90-NA-069	
(SBIR) FEASIBILITY INVESTIGATION OF RIGID-LEARNING CONCEPT MADER RESEARCH DIV. MAECKER & COMPANY	WILLIAM MAECKER	N 06 29/01/90 \$421,294	WU 90-NA-070	
(SBIR) DEFORMATION OF ELASTIC AND PLASTIC MATERIALS COOK, R.F.	R COOK	N 06 31/01/90 \$14,000	WU 90-NA-075	
DEVELOPMENT OF NEW METHODOLOGY FOR DETERMINING THE RESPONSE OF LARGE ORDER NON-CLASSICALLY DAMPED DYNAMIC SYSTEMS UNIV OF SOUTHERN CALIFORNIA	FIDAU UDWADIA	N 36 02/02/90 \$247,877	WU 90-NA-081	
KNOWLEDGE-REPRESENTATION TECHNOLOGY FOR STRUCTURAL ANALYSIS/ DESIGN OPTIMIZATION EXPERT SYSTEMS STRUCTURAL ANALYSIS TECHNOLOGIES INC	HASAN KAMIL	N 12 02/02/90 \$120,647	WU 90-NA-083	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CONFIGURATION EVOLUTION DYNAMICS AND STABILITY DURING IN-SITU DEVELOPMENT OF LARGE ORBIT SPACE-CRAFT PENNSYLVANIA STATE UNIVERSITY	AMQS	N 36 21/02/90 \$322,264	WU 90-NA-091	
THE POTENTIAL AND LIMITATIONS OF OPTICAL METHODS IN EXPERIMENTAL MICROMECHANICS UNIV OF STRATHCLYDE (SCOTLAND)	MCKFLYIE	N 12 21/02/90 \$52,594	WU 90-NA-092	
INVESTIGATION OF THE DYNAMIC SHAPING PHENOMENON OF A CYLINDRICAL SHELL CONSIDERING COMPOSITE MATERIALS AIR FORCE INSTITUTE OF TECHNOLOGY	PALAZOTTO	N 12 21/02/90 \$78,700	WU 90-NA-093	
SLIDING-MODE CONTROL OF RAPIDLY MANEUVERING SPACECRAFT WITH UNKNOWN, TIME VARYING, NONLINEAR DYNAMICS NORTH EAST LONDON POLYTECHNIC	DOODS	N 36 22/02/90 \$195,156	WU 90-NA-095	
A DAMAGE MODEL AND NUMERICAL PROCEDURE FOR DEVELOPING STRUCTURAL SYSTEMS WITH IMPROVED DAMAGABILITY AND REPAIRABILITY RUTGERS - THE STATE UNIVERSITY (NJ)	SCHAL	N 24 26/02/90 \$137,251	WU 90-NA-097	
QUANTITATIVE ANALYSIS OF ELASTIC PROPERTIES VIA DIRECT SIMULATION ON DIGITIZED IMAGES NATIONAL INST. OF STANDARDS & TECHNOLOGY	GARROZZI	N 40 26/02/90 \$654,784	WU 90-NA-098	
NEW APPROACHES TO THE ACTIVE CONTROL OF CONTINUOUS STRUCTURAL SYSTEMS UNIV OF SOUTHERN CALIFORNIA	UDWADIA	N 36 19/03/90 \$175,834	WU 90-NA-112	
A FUNCTIONAL SERIES EXPANSION METHOD FOR RANDOM ANALYSIS OF SPACE OF SPACE STRUCTURES WITH OR WITHOUT VIBRATION CONTROL MECHANISMS CLARKSON UNIVERSITY	AMMALI	N 36 19/03/90 \$310,882	WU 90-NA-113	
NONLINEAR ANALYSIS OF MECHANICAL SYSTEMS UNDER COMBINED HARMONIC AND STOCHASTIC EXCITATIONS UNIV OF ILLINOIS	MANECHCHIVAYA	R 24 19/03/90 \$128,241	WU 90-NA-114	

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TITLE
TITLE (CONT.)
INSTITUTION

ADVANCED RESEARCH WORKSHOP ON TURNING MECHANISMS IN QUASI-
BRITTLE MATERIALS
NORTHWESTERN UNIVERSITY

INVESTIGATOR

SHAH

SURENDRA

NONLINEAR AERCELASTICITY OF COMPOSITE STRUCTURES

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

DUGUNDJI

JOHN

TYPE/MONTHS
RECEIVED
AMOUNT

M 12
19/03/90
85,000

R 15
19/03/90
8135,466

STATUS
PROGRAM MANAGED
PROPOSAL #

WU 90-NA-115

WU 90-NA-116

INITIATE
START DATE
TOT AMT

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TECHNIQUES FOR IMPROVED STRUCTURAL CONTROL IN EPITAXY				
NATIONAL INST. OF STANDARDS & TECHNOLOGY	WILLIAM EISELHOFF, JR.	N 12 05/01/90 \$50,000	BURGGRAPH 90-NC-070	
EXPERIMENTAL INVESTIGATIONS AND MOLECULAR DYNAMICS SIMULATIONS OF RADIATION INDUCED SURFACE DAMAGE NORTHWESTERN UNIVERSITY	STAIR	N 12 16/01/90 \$50,000	BURGGRAPH 90-NC-095	
RESONANT CHARGE TRANSFER IN HYPERTHERMAL ATOMIC AND MOLECULAR ION- SURFACE COLLISIONS CORNELL UNIVERSITY	COOPER	N 12 22/01/90 \$187,347	BURGGRAPH 90-NC-097	
GORDON RESEARCH CONFERENCE ON ELECTRON SPECTROSCOPY				
GORDON RESEARCH CONFERENCES INC	MCKAY	N 06 25/01/90 \$10,000	BURGGRAPH 90-NC-113	
SURFACE SCIENCE AND MODELING STUDIES OF ENDOTHERMIC FUELS CATALYSIS UNIV OF SOUTHERN CALIFORNIA	KOLL	N 12 25/01/90 \$51,411	BURGGRAPH 90-NC-116	
5TH INTERNAT'L CONFERENCE ON SCANNING TUNNELING MICROSCOPY (STM'90) & 1ST INTERNAT'L CONF. ON NANOMETER SCALE SCIENCE (NANO1) NAVAL RESEARCH LABORATORY	MURDAY	N 12 22/02/90 \$5,000	BURGGRAPH 90-NC-154	
OXIDATION RATES AND MECHANISMS OF ADVANCED COATING MATERIALS AT TEMPERATURES ABOVE 1300C UNIV OF PENNSYLVANIA	WORPELL	N 12 26/03/90 \$195,000	BURGGRAPH 90-NC-193	
EVALUATION OF CHEMICAL AND ATMOSPHERIC SCIENCES RESEARCH				
NATIONAL ACADEMY OF SCIENCES	SPINDEL	N 12 26/01/90 \$250,000	A DAVIS 90-NC-118	\$1 01/11/90 \$1,350,000
THEORETICAL STUDY OF QUENCHING AND CONVECTIONAL ENERGY TRANSFER IN H2 BY H3 AND H2 IMPACT UNIV OF CALIFORNIA	LESTER, JR	N 12 01/02/90 \$145,513	DAVIS 90-NC-134	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SPECTRA AND DYNAMICS OF HIGHLY EXCITED MOLECULES UNIV OF OREGON	KELLMAN MICHAEL	N 12 02/02/90 \$75,639	DAVIS 90-MC-137	
THIRD HARMONIC GENERATION FROM NOVEL POLYSILANES CARNEGIE-MELLON UNIVERSITY	PATTERSON GARY	N 12 02/02/90 \$61,980	DAVIS 90-MC-139	
IONIC SOLID HYDROGEN FUEL: STORAGE OF IONS IN HYDROGEN MATRIX SPI INTERNATIONAL	SAE YOUNG	N 02 29/03/90 \$50,000	DAVIS 90-MC-196	
1990 GORDON CONFERENCE ON INORGANIC CHEMISTRY GORDON RESEARCH CONFERENCES INC	CRUICKSHANK ALEXANDER	N 12 16/01/90 \$5,240	A MEDBERG 90-MC-094	\$23,500 01/05/90 \$23,500
NEW SYNTHETIC TECHNIQUES FOR ADVANCED PROPELLANT INGREDIENTS: NUCLEOPHILIC DISPLACEMENT OF TRIFLUOROMETHYL GROUPS BY AMINES MORRIS BROWN COLLEGE	ANDERSON GLORIA	N 12 16/01/90 \$115,054	MEDBERG 90-MC-096	
NEW APPROACHES TO THE SYNTHESIS OF NOVEL CIRCUMOSILANES NORTH DAKOTA STATE UNIVERSITY	POUDJOUK PHILIP	N 12 22/01/90 \$114,007	MEDBERG 90-MC-098	
GORDON RESEARCH CONFERENCE ON CATALYSIS GORDON RESEARCH CONFERENCES INC	ANTON DAVID	N 12 25/01/90 \$24,520	MEDBERG 90-MC-115	
MATERIALS RESEARCH SYMPOSIUM "SYNTHESIS AND PROPERTIES OF NEW CATALYSTS UTILIZATION OF NOVEL MATERIALS COMPONENTS & SYNTHETIC TE MATERIALS RESEARCH SOCIETY	COPCONAN EDWARD	N 12 06/02/90 \$4,000	D MEDBERG 90-MC-141	
BIOTECHNOLOGY SYMPOSIUM AMERICAN SOCIETY FOR COMPOSITES	WOOLSEY BARBARA	N 12 12/02/90 \$7,500	A MEDBERG 90-MC-146	\$7,500 01/06/90 \$7,500

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
DYNAMICS AND STABILIZATION OF MATERIALS POSSESSING HIGH ENERGY CONTENT COLUMBIA UNIVERSITY	TURCO	R 12 15/02/90 \$100,000	HEDBERG 90-NC-150	
GRAVITY WAVES AND CONVECTION IN THE ATMOSPHERE				
NASA - GODDARD SPACE FLIGHT CENTER	FINAUDI	N 12 05/01/90 \$113,187	STOBIE 90-NC-059	
(SBR) THE DEVELOPMENT OF AN IMPROVED CONVECTIVE INITIATION SCHEME FOR MESOSCALE NUMERICAL WEATHER PREDICTION MODELS MESOSCALE ENVIRON SIMUL & OPER INC	WRIGHT III	N 06 08/01/90 \$49,888	A STOBIE 90-NC-074	\$49,888 05/07/90 \$49,888
ADVANCED METHODS FOR ATMOSPHERIC MODELING				
NIELSEN ENGINEERING AND RESEARCH CO	RODMAN	N 06 08/01/90 \$50,000	A STOBIE 90-NC-078	\$45,500 05/07/90 \$45,500
DONOR CELL-CHARGE SIMULATION MODELING OF CLOUD-SCALE THUNDERSTORM ELECTRIFICATION PROCESSES CARNEGIE-MELLON UNIVERSITY	WARGUS	N 12 24/01/90 \$116,331	STOBIE 90-NC-112	
REMOTE SENSING OF ATMOSPHERIC AEROSOLS AND CLOUDS USING LIDAR AND HIGH FREQUENCY RADAR ABOARD AN AIRCRAFT UNIV OF WASHINGTON	HARRIS	N 12 29/01/90 \$146,244	STOBIE 90-NC-120	
PATH RESOLVED OPTICAL PUNCT. SENSING OF ATMOSPHERIC WINDS UTILIZING SPECKLE-TURBULANCE INTERACTION OREGON GRADUATE CENTER FOR STUDY & RESEARCH	HOLMES	N 12 01/02/90 \$173,542	STOBIE 90-NC-131	
APPARATUS FOR TRIGGERING LIGHTNING				
STATE UNIVERSITY OF NEW YORK	VONNEGUT	N 12 01/02/90 \$77,978	STOBIE 90-NC-132	
LASER BEAM PROPAGATION AND REFLECTION IN THE ATMOSPHERE UNIV OF COLORADO	FRENCH	N 12 12/02/90 \$71,212	STOBIE 90-NC-147	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SPECKLE PHOTOGRAPHY FOR CLOUD DYNAMICS STUDIES UNIV OF ALABAMA	VIKRAM CHANDRA	N 12 12/02/90 \$85,580	STOBIE 90-MC-148	
THE INITIATION OF LIGHTNING AND THE GROWTH OF ELECTRIC FIELDS IN THUNDERSTORMS UNIV OF MANCHESTER	LATHAM JOHN	N 12 16/02/90 \$79,800	STOBIE 90-MC-151	
NUMERICAL SIMULATION STUDIES OF MOUNTAIN DRAG-INDUCED ALONGSTREAM AEROSTROPHY IN JET STREAKS AND THE MESO-SCALE SEVERE STORM NORTH CAROLINA STATE UNIVERSITY	YUN-LANG LYN	N 12 20/02/90 \$154,758	STOBIE 90-MC-152	
STUDY OF ATMOSPHERIC ELECTRICAL DISCHARGES LOS ALAMOS NAT'L LAB--APPL THEOR PHYS DV	MAIER II WILLIAM	N 12 21/02/90 \$187,500	STOBIE 90-MC-153	
LARGE ICE CRYSTAL CHARGE TRANSFER STUDIES UNIV OF MANCHESTER INST OF SCI & TECH	SAUNDERS CLIVE	R 12 22/02/90 \$25,313	STOBIE 90-MC-155	
LOCATION AND CHARACTERIZATION OF IN-CLOUD LIGHTNING CURRENTS BY MULTIPLE STATION VME AND ELECTRIC FIELD MEASUREMENTS UNIV OF FLORIDA	EWEN THOMSON	N 12 22/02/90 \$214,304	STOBIE 90-MC-156	
TURBULENT THERMAL CONVECTION IN ROTATING AND STRATIFIED FLUIDS ARIZONA STATE UNIVERSITY	BERNARD H.J.S.	N 12 27/02/90 \$72,954	STOBIE 90-MC-158	
NUMERICAL MODELING STUDIES OF STORM ELECTRIFICATION IN THE VICINITY OF KENNEDY SPACE CENTER S.O. SCHOOL OF MATHS & TECHNOLOGY	WELSON, JR JOHN	N 12 27/02/90 \$100,000	STOBIE 90-MC-159	
ELECTRIFICATION IN NON-THUNDERSTORM CLOUDS NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	ZIEGLER CONRAD	N 12 27/02/90 \$18,600	STOBIE 90-MC-161	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NUMERICAL MODELING AND PARAMETERIZATION OF GRAVITY WAVE PROCESSES AND EFFECTS IN THE ATMOSPHERE UNIV OF ALASKA	FRITTS	N 12 28/02/90 \$81,400	STOBIE 90-MC-152	
ROCKET-BORNE ELECTRIC FIELD SENSOR				
NEW MEXICO INSTITUTE OF MINING AND TECH	RISON	N 12 28/02/90 \$105,795	STOBIE 90-MC-163	
THE FARGO BLIZZARD OF 6-9 JANUARY 1989				
ST. CLOUD STATE UNIV -- OPT OF EARTH SCI	WEISMAN	N 12 28/02/90 \$18,201	D STOBIE 90-MC-164	
A NUMERICAL STUDY OF THUNDERSTORM ELECTRIFICATION UNIV OF WASHINGTON	BAKER	N 12 28/02/90 \$66,870	M STOBIE 90-MC-165	
A SCHEME FOR LASER-TRIGGERED LIGHTNING NAVAL RESEARCH LABORATORY	FEONSLER	N 12 01/03/90 \$93,000	STOBIE 90-MC-166	
THEORETICAL AND EXPERIMENTAL MODELING OF TRIGGERED LIGHTNING NAVAL RESEARCH LABORATORY	FEONSLER	N 12 01/03/90 \$150,000	STOBIE 90-MC-167	
CONTINUED STUDIES OF TOLERANCE FROM CN2 DATA ST. CLOUD STATE UNIV -- OPT OF EARTH SCI	MASTRON	N 12 02/03/90 \$33,905	D STOBIE 90-MC-168	
TRIGGERED LIGHTNING ANALYSIS BY REMOTE ELECTRIC FIELD MEASUREMENTS NAVAL RESEARCH LABORATORY	PUMKE	N 12 05/03/90 \$30,000	STOBIE 90-MC-169	
MICROPHYSICS MEASUREMENTS WITH AIRCRAFT DURING THE FIELD EXPERIMENT AT KSC IN 1991 NAVAL RESEARCH LABORATORY	PUMKE	N 12 05/03/90 \$40,000	STOBIE 90-MC-170	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COCROINATION OF RESEARCH OF A MULTI-AGENCY FIELD EXPERIMENT AT KSC IN 1991 NAVAL RESEARCH LABORATORY	PUHMK	N 12 05/03/90 \$40,000	STOBIE 90-MC-171	
THE THERMALIZATION OF SURFACE DISCHARGES UNDER MINIMAL CONDITIONS STATE UNIVERSITY OF NEW YORK	BARRETO	N 12 06/03/90 \$26,340	STOBIE 90-MC-172	
MODELING OF CLOUD/RADIATION PROCESSES FOR LARGE-SCALE CLOUDS AND TROPICAL ANVILS UNIV OF UTAH	LIU	N 12 08/03/90 \$163,000	STOBIE 90-MC-173	
REMOTE SENSING OF ELECTRICAL CHARACTERISTICS OF STORMS USING RADAR POLARIMETRY UNIV OF ALABAMA	CHANDRASEKAR V.	N 12 08/03/90 \$77,037	STOBIE 90-MC-176	
ELECTRIC DISPLACEMENT CURRENTS NEAR ROCKET-TRIGGERED LIGHTNING UNIV OF ARIZONA	KRIDER E. PHILIP	N 12 08/03/90 \$70,465	STOBIE 90-MC-177	
RADAR OBSERVATIONS OF ELECTRIFIED THUNDERSTORMS AT KENNEDY SPACE CENTER FLORIDA STATE UNIVERSITY	RAY PETER	N 12 08/03/90 \$108,458	STOBIE 90-MC-178	
ELECTRIC FIELD MEASUREMENTS IN HIGH-THUNDERSTORM CLOUDS UNIV OF MISSISSIPPI	MARSHALL THOMAS	N 12 09/03/90 \$125,066	STOBIE 90-MC-179	
RADAR OBSERVATIONS OF ELECTRIFIED THUNDERSTORMS AT KENNEDY SPACE CENTER FLORIDA STATE UNIVERSITY	RAY PETER	N 12 09/03/90 \$108,458	STOBIE 90-MC-180	
PARTIAL SUPPORT: HAS REAP ON ATMOSPHERIC SCIENCE AND CLIMATE (RASC) NATIONAL SCIENCE FOUNDATION	FEIN JAY	N 12 12/03/90 \$30,000	STOBIE 90-MC-191	\$30,000 01/10/90 \$30,000

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MULTIPARAMETER RADAR AND AIRCRAFT BASED STUDIES OF THE MICRO- PHYSICAL, KINEMATIC AND ELECTRICAL STRUCTURE OF CONVECTIVE CLOUDS COLORADO STATE UNIVERSITY	BRINGI	N 12 12/03/90 \$43,171	STOBIE 90-MC-182	
NUMERICAL TECHNIQUES IN CONTROL AND OPTIMIZATION UNIV OF FLORIDA	HAGER	N 12 12/03/90 \$46,096	STOBIE 90-MC-183	
LIGHTNING PREDICTION THEORETICAL CONCEPT ANALYTICAL METHOD REMOTE MEASUREMENT TECHNIQUE GENERAL RESEARCH CORP	WALLACE	N 12 12/03/90 \$110,306	STOBIE 90-MC-184	
EVALUATION OF NEW INSTRUMENTATION AND A SPACE CHARGE MODEL FOR IMPROVED MEASUREMENTS OF CLOUD ELECTRIFICATION & FORECASTING OF LI AIRBORNE RESEARCH ASSOCIATES	MARKSON	N 12 13/03/90 \$130,000	STOBIE 90-MC-195	
THE NATURE OF ICE PARTICLE COLLISIONS IN A MIXED-PHASE ENVIRONMENT MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WILLIAMS	N 12 13/03/90 \$69,300	STOBIE 90-MC-187	
POLARIZATION RADAR STUDIES OF PRECIPITATION AND LIGHTNING RISK UNIV OF MANCHESTER INST OF SCI & TECH	ILLINGWORTH	N 12 15/03/90 \$59,000	STOBIE 90-MC-199	
ATMOSPHERIC MEASUREMENTS FOR AIR FORCE PROGRAMS NAVAL POST GRADUATE SCHOOL	WALTERS	N 12 23/03/90 \$50,000	STOBIE 90-MC-192	
RADIOMETRIC MEASUREMENTS OF LIGHTNING NEAR-IR RADIATION AND REMOTE DETERMINATION OF LIGHTNING CHANNEL TEMPERATURE UNIV OF ARIZONA	WELDMAN	N 12 29/03/90 \$87,015	STOBIE 90-MC-195	
(SBR) ADVANCED SOL GEL FOR MOLIN-AR CHANNEL WAVEGUIDE STRUCTURES PHYSICAL OPTICS CORPORATION	MAVANT	N 06 09/01/90 \$51,249	ULRICH 90-MC-079	

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(SBIR) GRAPHITIC CARBON FIBER PREFORMS FOR NET SHAPE 2-D COMPOSITES APPLIED SCIENCES, INC.	MICKOG J KYLE	N 06 09/01/90 \$65,177	ULRICH 90-MC-080	
(SBIR) MULTIFUNCTIONAL POLYIMIDE/SOL-GEL NANOCOMPOSITE FILMS WITH HIGH NLO PERFORMANCE FOSTER-MILLER INC	KOVAR ROBERT	N 06 09/01/90 \$57,496	D ULRICH 90-MC-081	
(SBIR) NEW ORGANIC PHOTOREFRACTIVE NONLINEAR OPTICAL MATERIALS FOSTER-MILLER INC	DOMASH LAWRENCE	N 06 09/01/90 \$61,976	D ULRICH 90-MC-082	
(SBIR) HIGH-OPTICAL-QUALITY PLZT THIN FILMS OPTRON SYSTEMS INC	FULEIHAN CAMILLE	N 06 09/01/90 \$61,124	D ULRICH 90-MC-093	
(SBIR) HIGH PERFORMANCE POLYACENES MAXDEN INC	MARROCCO MATTHEW	N 06 09/01/90 \$49,395	D ULRICH 90-MC-094	
(SBIR) PRISTINE AND NOTIFIED SULFONATED CARBON FIBERS FOR MULTISPECTRAL OSCILLATION APPLIED SCIENCES, INC.	LAKE MAX	N 06 09/01/90 \$59,584	ULRICH 90-MC-095	
(SBIR) NOVEL METHODS FOR IMPROVED OXIDATIVE AND COMPRESSIVE PROPERTIES IN CARBON FIBERS APPLIED SCIENCES, INC.	LAKE MAX	N 06 09/01/90 \$54,757	ULRICH 90-MC-086	
(SBIR) MAGNETIC CERAMIC THIN FILMS FOR MICROWAVE AND MILLIMETER- WAVE INTEGRATED DEVICES GEL-TECH, INC.	SETH VINAY	N 06 09/01/90 \$49,870	ULRICH 90-MC-097	
(SBIR) SURFACE MICROGRAPHIC POLYCRYSTALLINE CERAMIC FERROELECTRIC THIN FILMS FOR "SMART" SENSORS GEL-TECH, INC.	SETH VINAY	N 06 09/01/90 \$49,970	ULRICH 90-MC-098	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR) TRANSPIRATION COOLED ULTRAVIOLET SOL-GEL SILICA OPTICS JEL-TECH, INC.	JEAN-LUC MOQUES	N 06 09/01/90 \$49,953	ULRICH 90-NC-089	
(SBIR) A NEW TECHNIQUE FOR MONITORING AND MODIFYING THIN FILM GROWTH IONWERKS	SCHULTZ J. ALBERT	N 06 09/01/90 \$50,000	ULPICH 90-NC-090	
(SBIR) GAS JET DEPOSITION OF NOVEL NONLINEAR OPTICAL THIN FILMS: ORGANIC MOLECULES TRAPPED IN GLASS SCHMITT TECHNOLOGY ASSOCIATES	HALPEIN BRET	N 12 11/01/90 \$50,000	D ULRICH 90-NC-092	
NEW METAL COMPLEXES FOR NONLINEAR OPTICAL EFFECTS UNIV OF ROCHESTER	FISENBERG RICHARD	N 12 22/01/90 \$198,223	ULRICH 90-NC-099	
(SBIR)NOVEL POLYMER ALLY PROCESSING USING ELECTRIC AND MAGNETIC FIELDS ADVANCED SURFACE TECHNOLOGY INC	LOH IM-HOUNG	N 06 22/01/90 \$50,000	D ULRICH 90-NC-101	
(SBIR) HIGH EFFICIENCY NONLINEAR OPTICS WITH FERROELECTRIC LIQUID CRYSTAL POLYMERS DISPLAY TECH, INC	HANDSCHY MARK	N 06 22/01/90 \$12,268	ULRICH 90-NC-104	
(SBIR)NONLINEAR OPTICAL EFFECTS IN NOVEL SOLUBLE, MULTIFUNCTIONAL CONDUCTING POLYMERS GUMBS ASSOCIATES, INC	SEKHAR PRASANNA	N 06 23/01/90 \$49,979	D ULRICH 90-NC-105	
(SBIR) NOVEL SOLUBLE CONDUCTING POLYMERS AS UNIQUE MULTIFUNCTIONAL NONMETALLIC MATERIALS GUMBS ASSOCIATES, INC	SEKHAR P. CHANDRA	N 06 23/01/90 \$49,979	D ULRICH 90-NC-106	
(SBIR) ORGANIC POLYMERS FOR ULTRAFAST ELECTRO-OPTIC MODULATION MOLECULAR TECHNOLOGIES, INC	CAZACA MARIO	N 06 23/01/90 \$54,279	ULRICH 90-NC-107	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBR) SEMICONDUCTING PROCESSING TECHNIQUES WITH CERAMIC MATERIALS PAGE AUTOMATED TELECOMMUNICATIONS SYS INC	WIENER PATRICIA	N 06 23/01/90 \$50,000	ULRICH 90-NC-109	
NONLINEAR POLYMERIC FILMS FOR ULTRASHORT PULSES: CHARACTERIZATION AND APPLICATION UNIV OF CALIFORNIA	DIENES ANDREW	N 12 25/01/90 \$141,519	ULRICH 90-NC-114	
(SBR) A DIMENSIONALLY-CONSTRAINED NUCLEATION PROCESS FOR THE PRODUCTION OF HIGH CRITICAL CURRENT SUPERCONDUCTOR FILAMENT CPS SUPERCONDUCTOR CORPORATION	HODGE JAMES	N 06 29/01/90 \$51,750	ULRICH 90-NC-121	
(SBR) A LIQUID-GAS-SOLIDIFICATION PROCESS FOR PRODUCING HIGH TC SUPERCONDUCTING WIRE CPS SUPERCONDUCTOR CORPORATION	HODGE JAMES	N 06 29/01/90 \$52,959	ULRICH 90-NC-122	
(SBR) NONLINEAR ZNCEP2 EPILAYER GROWTH ON III-V SUBSTRATES EPITEK CORP--DEPT OF EE/CS--UNIV NEVADA	VOHL PAUL	N 06 29/01/90 \$50,000	ULRICH 90-NC-123	
(SBR) VARIABLE PROPERTIES MAGNETIC FLUID FERROFLUIDICS CORPORATION	RAJ KUNJAN	N 06 29/01/90 \$66,029	ULRICH 90-NC-124	
(SBR) CHEMICAL PROCESSING OF NOVEL MULTIFUNCTIONAL MATERIALS FOR SENSOR PROTECTION AGAINST LASER THREATS LASER PHOTONICS TECHNOLOGY INC	BURZYNSKI RYSZARD	N 06 29/01/90 \$49,985	D ULRICH 90-NC-125	
(SBR) A NOVEL SECOND HARMONIC GENERATOR FOR PHOTONICS USING MULTIFUNCTIONAL NONLINEAR WAVEGUIDES LASER PHOTONICS TECHNOLOGY INC	BURZYNSKI RYSZARD	N 06 29/01/90 \$49,925	A ULRICH 90-NC-126	\$49,925 01/07/90 \$49,925
(SBR) NANOPHASE DOPED PIXIE SENSORS NANOPHASE TECHNOLOGIES CORPORATION	WOODARD JOHN	N 06 29/01/90 \$49,875	D ULRICH 90-NC-127	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LIGHT AND X-RAY SCATTERING; STUDY OF PHASE TRANSFORMATION KINETICS IN POLYMERS BOSTON UNIVERSITY	SANSIL RAMA	N 12 01/02/90 \$130,448	ULRICH 90-NC-133	
NEW MATERIALS FOR NONLINEAR OPTICS AMERICAN CHEMICAL SOCIETY	MARDER SETH	N 12 02/02/90 \$125,000	A ULRICH 90-NC-136	\$12,500 20/04/90 \$12,500
ELECTRICAL CONDUCTIVITY OF ION IMPLANTED LADDER AND SEMI-LADDER POLYMERS OHIO STATE UNIVERSITY	EOSTEIN ARTHUR	N 12 05/02/90 \$202,251	ULRICH 90-NC-140	
LIGHT MODULATED DEFORMABLE MIRROR USING MULTIFUNCTIONAL ORGANIC MATERIALS M.C.C., SCIENCE & TECHNOLOGY INC.	GOLDBERG HARRIS	N 12 07/02/90 \$209,622	ULRICH 90-NC-142	
GRAIN-ORIENTED FERROELECTRIC FILMS FROM SOL-GEL SYSTEMS ALFRED UNIVERSITY	SCHULZE WALTER	N 12 09/02/90 \$56,830	D ULRICH 90-NC-143	
MICROANALYTICAL STUDY OF THE FORMATION OF MULLITE FROM SOL-GEL PRECURSOR ALFRED UNIVERSITY	FISCHMAN GARVIT	N 12 09/02/90 \$94,732	D ULRICH 90-NC-144	
CENTER FOR SOL-GEL PROCESSING OF HIGH PERFORMANCE CERAMIC MATERIALS ALFRED UNIVERSITY	FISCHMAN GARY	N 12 12/02/90 \$208,550	D ULRICH 90-NC-145	
POWDER-FREE PROCESSING FOR ADVANCED CERAMICS RUTGERS - THE STATE UNIVERSITY (FORD)	KLEIN LISA	N 12 26/02/90 \$15,750	ULRICH 90-NC-157	
FIFTH INTERNATIONAL CONFERENCE ON ULTRASTRUCTURE PROCESSING OF CERAMICS, GLASSES AND COMPOSITES UNIV OF FLORIDA	MENCH LARRY	N 12 27/02/90 \$36,750	ULRICH 90-NC-160	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PREPARATION OF PARTICLES OF UNIFORM SIZE AND SHAPE FROM LYOTROPIC LIQUID CRYSTALS CLARKSON UNIVERSITY	STIG FRIBERG	N 12 07/03/90 \$94,614	ULRICH 90-NC-173	
TRACTABLE POLYMERHETEROCYCLES FOR USE AS NONLINEAR OPTICAL MATERIALS RESEARCH TRIANGLE INSTITUTE	JACK PRESTON	N 12 08/03/90 \$135,707	ULRICH 90-NC-174	
SCIENTIFIC RESEARCH CONFERENCE ON SOL-GEL OPTICS SPIE - INTERNATIONAL SOC FOR OPTICAL ENGINEERING	J. O. MACKENZIE	N 12 19/03/90 \$19,874	A ULRICH 90-NC-190	\$19,874 01/07/90 \$19,874
DEPOSITION OF VERY FINELY DIVIDED AND UNIFORMLY DISPERSED METAL(CO) SPECIES INTO SOL-GEL CERAMIC MATERIALS USING TRIETHOXY-SILANE UNIV OF SOUTH CAROLINA	JAMES TOUR	N 12 19/03/90 \$97,265	ULRICH 90-NC-191	
ELECTRO-OPTO-MECHANIC POLYMERS UNIV OF AKRON	RAY RONALD	N 12 28/03/90 \$10,000	ULRICH 90-NC-194	
IN-SITU LASER ACTIVATION OF ELECTROCHEMICAL CHARGE TRANSFER KINETICS OHIO STATE UNIV RESEARCH FOUNDATION	MCREEERY RICHARD	R 12 05/01/90 \$144,768	WILKES 90-NC-071	
X-RAY ABSORPTION SPECTROSCOPY OF ELECTROCHEMICALLY GENERATED SPECIES UNIV OF CINCINNATI	MEINEMAN WILLIAM	N 12 31/01/90 \$168,259	WILKES 90-NC-129	
PHOTOCHEMICAL REACTIONS WITHIN VAN DER WAALS CLUSTERS OF METAL HEXACARBONYL COMPOUNDS STATE UNIVERSITY OF NEW YORK	GARVEY JAMES	N 12 23/01/90 \$69,578	WODARCZYK 90-NC-111	
THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES STANFORD UNIVERSITY	ROSS JOHN	N 12 29/01/90 \$164,996	WODARCZYK 90-NC-119	

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TIME-RESOLVED IR SPECTROSCOPY, ENERGY TRANSFER AND STATE-TO-STATE COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES UNIV OF COLORADO	NESHITT	N 12 31/01/90 \$124,320	WODARCZYK 90-MC-130	
MOLECULAR ENERGY TRANSFER IN $H_2(C^1)$ + HE AND $H_2(C^1)$ + $H_2(X)$ COLLISIONS UNIV OF CALIFORNIA	MOORE	N 12 02/02/90 \$241,094	WODARCZYK 90-MC-135	
LARGE AMPLITUDE MOTIONS, ESPECIALLY ISOMERIZATION AND TUNNELING IN POLYATOMIC MOLECULE SPECTRA: NOVEL EXPERIMENTAL, PATTERN, RECOGNITION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ROBERT	N 12 02/02/90 \$220,000	WODARCZYK 90-MC-138	
SURFACE-CATALYZED CHEMILUMINESCENCE STANFORD UNIVERSITY	ZARE	N 06 14/02/90 \$30,000	A WODARCZYK 90-MC-149	\$30,000 15/04/90 \$30,000
REACTIONS AND SPECTROSCOPY OF EXCITED NITRENES UNIV OF DENVER	COOMBE	N 12 13/03/90 \$100,200	A WODARCZYK 90-MC-186	\$95,000 01/07/90 \$95,000
(SBR) VIBRATIONALLY ASSISTED ENERGY TRANSFER LASER CONCEPT PHYSICAL SCIENCES INC	DAVIS	N 06 15/03/90 \$99,901	A WODARCZYK 90-MC-188	\$50,000 01/07/90 \$50,000

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TITLE (CJMT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A BRAGG-BAND QUANTUM COUNTER WITH GAIN		N 06 16/01/90 \$48,549	CRAIG 90-NE-056	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN			
PHASE-CONJUGATE POSITION SENSOR		N 06 16/01/90 \$48,309	CRAIG 90-NE-057	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN			
A MODULAR, COMPACT, GENERAL-PURPOSE, PHOTONIC COMPONENT CALIBRATION AND CHARACTERIZATION BENCH OPTRON SYSTEMS, INC	HILLMAN	N 06 16/01/90 \$60,321	CRAIG 90-NE-058	
OPTICAL ANALOG TO DIGITAL COMPUTING		N 06 16/01/90 \$50,000	A CRAIG 90-NE-059	\$50,000 01/07/90 \$50,000
OPTRON SYSTEMS, INC	O'HARA			
BENCHMARK TESTS FOR PHOTONIC COMPUTING		N 06 16/01/90 \$49,375	CRAIG 90-NE-060	
ADVANCED OPTICAL SYSTEMS	HARTMAN			
DEVELOPMENT OF VISIBLE LASER LAMPS FOR SOLID-STATE DRIVERS		N 06 16/01/90 \$50,000	CRAIG 90-NE-061	
COLUMBIA RESEARCH INSTRUMENTS CORP.	PRELAS			
SYNTHETIC WAVE INTERFERED FOR ABSOLUTE DISTANCE MEASUREMENTS		N 06 16/01/90 \$49,259	CRAIG 90-NE-062	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN			
ATTOJoule METER		N 06 16/01/90 \$48,189	CRAIG 90-NE-063	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN			
HIGH SPEED, HIGH RESOLUTION, COMPACT TIME-OF-FLIGHT OPTICAL MEMORY		N 36 17/01/90 \$450,580	CRAIG 90-NE-082	
SRI INTERNATIONAL	KACHRU			
	RAVINDER			

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBR 90) UNIVERSAL PAGING PLUG-IN FOR IMACON CAMERAS MILLER (C.E.)	WILLER C	N 06 24/01/90 \$55,490	CRAIG 90-NE-093	
(SBR 90) OPTICAL INSTRUMENTATION FOR CHARACTERIZATION OF ELECTRONIC AND OPTOELECTRONIC THIN FILMS APPLIED OPTICS	PLOOMER IRIS	N 06 24/01/90 \$49,437	CRAIG 90-NE-094	
(SBR 90) DEVELOPMENT OF A STIGMATIC FLAT FOCAL FIELD SPECTROGRAPH CHRONEX I C	GOSBELI GARTH	N 06 24/01/90 \$49,326	CRAIG 90-NE-095	
(SBR 90) FAST STEERING MIRROR FOR OPTICAL LABORATORIES AUTOMATTA, INC.	AMES GREGORY	N 06 24/01/90 \$50,376	CRAIG 90-NE-096	
(SBR 90) DEVELOPMENT OF CAVITY DUMPING FOR FREE-ELECTRON LASER SIERRA LASER SYSTEMS, INC	MARC MARCEL	N 06 30/01/90 \$50,000	CRAIG 90-NE-117	
(SBR 90) DEVELOPMENT OF A MICRO-EMBEDDED FREE-ELECTRON LASER SIERRA LASER SYSTEMS, INC	MARC MARCEL	N 06 30/01/90 \$50,000	CRAIG 90-NE-118	
(SBR 90) A NEW SCIENTIFIC RESEARCH INSTRUMENT FOR CHARACTERISTIC PREDICTION AND QUALITY CONTROL OF HIGH PERFORMANCE OPTICAL FIBER MARTIN OPTICAL ASSOCIATES	FAN C	N 06 30/01/90 \$50,000	CRAIG 90-NE-119	
PHOTOREFRACTIVE TUNABLE SPONTANEOUS MATERIALS FOR OPTICAL COMPUTING ROCKWELL INTERNATIONAL, SCIENCE CENTER	NEURGAONKAR R	N 24 06/02/90 \$600,000	A CRAIG 90-NE-127	\$150,000 01/05/90 \$600,000
OPTOELECTRONIC NEURAL PROCESSING DEVICES BASED ON III-V MATERIALS TECHNOLOGY LINCOLN LABORATORY/MIT	AULL BRIAN	N 36 09/02/90 \$1,166,230	CRAIG 90-NE-130	

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OPTICAL COMPUTING RESEARCH STANFORD UNIVERSITY	GOODMAN JOSFPH	R 36 19/03/90 \$475,177	CRAIG 90-NE-149	
STRUCTURAL AND COMPOSITIONAL CHARACTERIZATION OF ELECTRONIC MATERIALS USING RESONANCE IONIZATION SPECTROSCOPY ATOM SCIENCES, INC.	THOMAS MORRERT	N 06 16/01/90 \$58,914	LITTON 90-NE-064	
COMPOSITE CHARACTERIZATION BY IMPEDANCE ANALYSIS CHEMTECH SYSTEMS, INC.	GOPIKANTH M	N 06 16/01/90 \$63,356	LITTON 90-NE-065	
DEVELOPMENT OF CONTACTLESS BIPOLAR ELECTRICAL BIAS & INCORPORATION INTO A MULTI-PROBE INSTRUMENT FOR SEMICONDUCTOR CHARACTERIZATION CHARLES EVANS & ASSOC.	COLVARD CARL	N 06 16/01/90 \$49,566	LITTON 90-NE-066	
MICRO-GAS CHROMATOGRAPH SYSTEM CHEMTECH SYSTEMS, INC.	GOPIKANTH M	N 06 16/01/90 \$63,356	LITTON 90-NE-067	
PLASMA PROCESS CONTROLLER AND THIN FILM MONITOR TTL TECHNIQUES	KIM J	N 06 16/01/90 \$50,000	LITTON 90-NE-068	
LOW COST, ULTRA-SUBMICRON RESOLUTION INSTRUMENT FOR SEMICONDUCTOR RESEARCH QUANSCAN, INC.	JAHANMIR JAHSHIO	N 06 16/01/90 \$50,000	LITTON 90-NE-069	
ATOMIC RESOLUTION MEASURING MACHINE SATCON TECHNOLOGY CORPORATION	HOCKNEY R	N 06 16/01/90 \$49,941	LITTON 90-NE-070	
NOVEL OXYGEN AND HYDROGEN DETECTION UNDER VACUUM CONDITIONS PHYSICAL OPTICS CORPORATION	SAVANT GAJENDRA	N 06 16/01/90 \$50,937	LITTON 90-NE-071	

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THE MECHANISM OF DIAMOND FILM DEPOSITION AEROCHEM RESEARCH LABORATORIES INC	KEIL DAVID	N 06 16/01/90 \$50,000	LITTON 90-ME-072	
TECHNIQUE FOR IN-SITU QUANTIFICATION OF DOPANTS AND MAJOR ELEMENT DURING EPILAYER GROWTH AND PROCESSING IONWEEKS	SCHULTZ ALBERT	N 06 24/01/90 \$50,000	LITTON 90-ME-088	
MODULAR NEAR FIELD VISUAL IMAGING DEVICE CONSULTANT SPECIALIST, INC	POULSEN PETER	N 06 24/01/90 \$46,544	LITTON 90-ME-089	
TENSILE MEASUREMENTS ON THIN FILMS PHYSICON, INC	O'HARA DAVID	N 07 24/01/90 \$50,000	LITTON 90-ME-090	
(SBIR 90) XY-POSITIONING SYSTEM WITH MICROCINCH PRECISION OPTRA INC.	MERCHER MICHAEL	N 06 24/01/90 \$49,964	LITTON 90-ME-091	
(SBIR 90) INCREASING THE POWER OF A SOFT X-RAY TRANSITION RADIATION SOURCE FOR LITHOGRAPHY ADELPHI TECHNOLOGY, INC.	PIESTRUP MELVIN	N 06 24/01/90 \$49,997	LITTON 90-ME-092	
(SBIR 90) DEVELOPMENT OF A LOW TEMPERATURE TECHNIQUE FOR CV AND I-V MEASUREMENTS IN SEMICONDUCTORS IN AN ULTRA-HIGH VACUUM ENVIRON SOLID STATE MEASUREMENTS INC	HILLARD ROBERT	N 06 30/01/90 \$49,721	LITTON 90-ME-122	
(SBIR 90) DIAMOND FIBER OPTICAL ELEMENTS CRYSTALLONE	SMART M	N 06 30/01/90 \$54,967	LITTON 90-ME-123	
(SBIR 90) MICROELECTRONIC BIOLOGICAL INDICATOR FOR STEAM AUTOCLAVE TEST ORAL HEALTH SERVICES INC	MAYO LOUIS	N 06 30/01/90 \$49,877	LITTON 90-ME-124	

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ELECTRO-OPTIC E-FIELD PROBE FOR INTEGRATED CIRCUIT DIAGNOSTIC MEASUREMENTS GEO-CENTERS INC	SMITH	N 06 16/01/90 \$49,969	POMRENKE 90-NE-075	
CONTINUOUS WAVE COMPUTER CONTROLLED TUNABLE INFRARED LASER SPECTROMETER SCHMIDT INSTRUMENTS	SCHMIDT	N 06 16/01/90 \$50,000	POMRENKE 90-NE-076	
QUANTUM-WELL INFRARED SPECTROMETER ELECTRO-OPTIC CORPORATION	CHAN	N 06 16/01/90 \$57,339	POMRENKE 90-NE-077	
A TUNABLE SOLID STATE IR LASER FOR NEW SCIENTIFIC INSTRUMENTS INTERSCIENCE INC	WOO	N 06 16/01/90 \$56,472	POMRENKE 90-NE-078	
IN-SITU PROCESS CONTROL BY ELLIPSOIDOMETRY J. A. WOOLLAM COMPANY	WOLLAM	N 06 16/01/90 \$50,000	POMRENKE 90-NE-079	
NEW DIAGNOSTIC TECHNIQUE- INSTRUMENTATION FOR MEASURING MAGNETIC FIELD IN ELECTROMAGNETICALLY NOISY ENVIRONMENT AMERICAN RESEARCH CORP OF VIRGINIA	NIIMURA	N 06 16/01/90 \$50,000	POMRENKE 90-NE-080	
ELECTROCHEMICAL TOXIC GAS MONITOR CHENITECH SYSTEMS, INC.	GOPIKANTH	N 06 16/01/90 \$63,356	POMRENKE 90-NE-081	
INVESTIGATIONS OF HETEROJUNCTIONS AND MULTIPLE QUANTUM WELL STRUCTURES USING CRYSTALLINE ORGANIC SEMICONDUCTORS UNIV OF SOUTHERN CALIFORNIA (EL-C ENO)	FORREST	R 36 17/01/90 \$473,055	POMRENKE 90-NE-083	
LARGE SIGNAL CHARACTERIZATION AND MODELING OF HETEROJUNCTION BIPOLAR TRANSISTORS LEHIGH UNIVERSITY	HWANG	N 36 17/01/90 \$225,000	POMRENKE 90-NE-084	90 01/06/90 \$225,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR 90) AN IN-SITU SENSITIVE UTILIZING THE PRINCIPLES OF ATOMIC ABSORPTION AND FLUORESCENCE SPECTROMETRY LU (C.) LABORATORY	LU	N 06 24/01/90 \$50,000	POMRENKE 90-NE-104	
(SBIR 90) A FOUR POINT PROBE CAPABLE OF ELECTRICAL CONDUCTIVITY MEASUREMENT WITH SUBMICRON SPATIAL RESOLUTION PLASMATRON RESEARCH & DEVELOPMENT	POURREZAEI	N 06 24/01/90 \$50,000	POMRENKE 90-NE-105	
(SBIR 90) MICROWAVE VECTOR NETWORK ANALYZER APPLIED MICROWAVE CORPORATION	BRUNFLOD DAVID	N 06 24/01/90 \$50,000	POMRENKE 90-NE-106	
(SBIR 90) INSTANTANEOUS PERIOD/FREQUENCY MEASUREMENT SYSTEM MILLER (C.E.)	MILLER C	N 06 24/01/90 \$55,598	POMRENKE 90-NE-107	
THE GORDON RESEARCH CONFERENCE ON ELECTRON SPECTROSCOPY UNIV OF RHODE ISLAND	CRUICKSHANK ALEXANDER	N 06 24/01/90 \$10,000	POMRENKE 90-NE-108	
(SBIR 90) HANC HELD MATERIAL PROPERTIES MICROPROGRE ULTIMA CORPORATION	FRUITMAN CLARKSON	N 06 30/01/90 \$50,000	POMRENKE 90-NE-111	
(SBIR 90) PROFILING OF SUBMICRON JUNCTIONS IN SILICON ULSI BY THE SPREADING RESISTANCE TECHNIQUE SOLID STATE MEASUREMENTS INC	BEROWITZ H	N 06 30/01/90 \$49,526	POMRENKE 90-NE-112	
(SBIR 90) HIGH SPEED FVL LINE LITHOGRAPHY I SYSTEMS	KOSO D. ALEXANDER	N 06 30/01/90 \$50,987	POMRENKE 90-NE-113	
(SBIR 90) HIGH RESOLUTION - HIGH SPEED ULTRASOFT X-RAY EMISSION SPECTROMETER PACIFIC X-RAY COMPANY, INC	GUJINARA FRANCIS	N 06 30/01/90 \$50,000	POMRENKE 90-NE-114	

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(SIR 90) HIGH RESOLUTION ELECTRICAL PROFILING FOR COMPOUND SEMICONDUCTOR DEVICES SOLID STATE MEASUREMENTS INC	M BERKOWITZ	N 06 30/01/90 \$49,506	POMRENKE 90-NE-115	
(SIR 90) DEVELOPMENT FOR LOW TEMPERATURE HIGH RESOLUTION PROFILING OF COMPOUND SEMICONDUCTORS BY SPREADING RESISTANCE TECH SOLID STATE MEASUREMENTS INC	MARRY BERKOWITZ	N 06 30/01/90 \$49,722	POMRENKE 90-NE-116	
WORKSHOP ON THE PHYSICS AND CHEMISTRY OF MERCURY CADMIUM TELLURIDE PALISADES INSTITUTE FOR RESEARCH SERVICES	MARK COLOFAR	N 12 09/02/90 \$8,000	POMRENKE 90-NE-129	
STUDYING LARGE SIGNAL TIME DEPENDENT QUANTUM MECHANICAL TRANSPORT IN QUANTUM PHASE BASED DEVICES SCIENTIFIC RESEARCH ASSOCIATES, INC.	HAROLD GRUBIN	N 36 21/02/90 \$349,935	POMRENKE 90-NE-138	
LARGE SIGNAL CHARACTERIZATION AND MODELING OF HETEROJUNCTION BIPOLAR TRANSISTORS LEHIGH UNIVERSITY	JAMES HWANG	N 36 05/03/90 \$224,900	A POMRENKE 90-NE-141	\$70,235 01/06/90 \$225,000
LUMINESCENCE AND ELECTROLUMINESCENCE PROPERTIES OF ND, TM, YB DOPED GAAS AND SOME II-VI COMPOUNDS OHIO UNIVERSITY	HENRYK LOZYKOWSKI	N 36 05/03/90 \$179,000	POMRENKE 90-NE-143	
EVOLUTION OF THIN FILM AND SURFACE MICROSTRUCTURE MATERIALS RESEARCH SOCIETY	JOHN BALLANCE	N 12 07/03/90 \$4,000	D POMRENKE 90-NE-144	
DEVELOPMENT AND CHARACTERIZATION OF NEW ANISOTROPIC CONDUCTIVE COMPOSITES CLARKSON UNIVERSITY	SIGURDS ARAJIS	N 24 07/03/90 \$132,683	D POMRENKE 90-NE-145	
DEVELOPMENT OF INTEGRATION CONSTITUTIVE MODEL AND FORGING PROCESS SIMULATION OF 1713 WEST VIRGINIA UNIVERSITY	SUREN CHIVEDI	N 36 18/01/90 \$286,632	ROSENSTEIN 90-NE-086	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
WORKSHOP ON MECHANICAL FATIGUE OF ADVANCED MATERIALS UNIV OF CALIFORNIA	RITCHIE ROBERT	N 06 24/01/90 \$5,000	ROSENSTEIN 90-NE-087	\$151,053 01/09/90 \$640,827
HIGH TEMPERATURE FRACTURE MECHANISMS IN METALLIC MATRIX COMPOSITES PRODUCED BY COLLECIFICATION TECHNIQUES UNIV OF CALIFORNIA	EARTHMAN JAMES	N 42 09/02/90 \$395,940	ROSENSTEIN 90-NE-131	
FABRICATION & MECHANICAL PROPERTIES OF MONOLITHIC DE 22 TYPE AL 3 TA UNIV OF ILLINOIS	WAYMAN CLARENCE	N 36 09/02/90 \$290,608	ROSENSTEIN 90-NE-132	
A MINIATURE MECHANICAL TESTING MACHINE FOR SOLDER MATERIALS JOHNS HOPKINS UNIVERSITY	SHARP, JR W	N 24 19/03/90 \$292,221	ROSENSTEIN 90-NE-150	
DEVELOPMENT OF A NICKEL-BASED SUPERALLOY WITH VARYING ALLOYING ADDITIONS FOR STRINGENT AEROSPACE APPLICATIONS WEST VIRGINIA UNIVERSITY	CAIVENTI SUREN	N 36 19/03/90 \$287,356	ROSENSTEIN 90-NE-151	
(S6IR 90) MICROHAWE TESTING OF CARBON FIBERS KDC TECHNOLOGY CORPORATION	KING RAY	N 06 30/01/90 \$50,000	SCHIOLER 90-NE-120	
COMERENCY EFFECTS IN CERAMIC-SUPERPLASTICS VIRGINIA POLYTECHNIC INST & STATE UNIV	DESU SESHU	N 36 09/02/90 \$375,471	SCHIOLER 90-NE-128	
EFFECTS OF REINFORCING PHASE ON DEFORMATION BEHAVIOR OF SILICON NITRIDE BASED COMPOSITES UNIV OF WYOMING	COON DENNIS	N 36 09/02/90 \$225,000	SCHIOLER 90-NE-133	
OXIDATION PATTERNS AND MECHANISMS OF ADVANCED COATING MATERIALS AT TEMPERATURES ABOVE 1200C UNIV OF PENNSYLVANIA	WORRELL WAYNE	N 36 30/03/90 \$565,000	SCHIOLER 90-NE-153	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/QUANTITY RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FABRICATION AND ANALYSIS OF JOSEPHSON AND WFAK-LINK JUNCTIONS AND ARRAYS STANFORD UNIVERSITY	KAPITULNIK AMARON	N 36 10/01/90 \$1,232,950	A WEINSTOCK 90-NE-047	\$400,000 15/04/90 \$1,232,950
A NOVEL MAGNETIC FIELD SENSOR USING HIGH TC SUPERCONDUCTORS BELTRAN INC	SIMO CONSTANCE	N 06 16/01/90 \$50,000	WEINSTOCK 90-NE-073	
IN-SITU DIAGNOSTICS FOR SUPERCONDUCTOR DEPOSITION SCHMIDT INSTRUMENTS	SCHMIDT HOWARD	N 06 16/01/90 \$49,712	WEINSTOCK 90-NE-074	
(SBIR 90) IMPROVED CRYOSCOPIC PROBE FOR TESTING HIGH-FREQUENCY SUPERCONDUCTING INTEGRATED CIRCUITS AMERICAN CRYOCORP	PETERSON DAVID	N 06 24/01/90 \$57,550	WEINSTOCK 90-NE-100	
(SBIR 90) MAGNETIC SUSCEPTIBILITY APPARATUS FOR HIGH TEMPERATURE SUPERCONDUCTING THIN FILMS SUPERCONDUCTOR TECHNOLOGIES INC	FOURNE LINCOLN	N 06 24/01/90 \$57,744	WEINSTOCK 90-NE-101	
(SBIR 90) EFFICIENT MEASUREMENT OF SURFACE RESISTANCE OF HIGH TEMPERATURE SUPERCONDUCTING THIN FILMS SUPERCONDUCTOR TECHNOLOGIES INC	NEGRETTE GEORGE	N 06 24/01/90 \$59,319	WEINSTOCK 90-NE-102	
(SBIR 90) SUBSTRATES FOR SUPERCONDUCTING ELECTRONIC COMPONENTS SUPERCONDUCTOR TECHNOLOGIES INC	MOSKOWITZ MICHAEL	N 06 24/01/90 \$57,024	WEINSTOCK 90-NE-103	
DC SQUID HANDMAGNETOMETER IBM THOMAS J. WATSON RESEARCH CENTER	TESCHE CLAUDIA	N 12 29/01/90 \$100,000	WEINSTOCK 90-NE-109	
(SBIR 90) DEVELOPMENT OF NEW SCIENTIFIC INSTRUMENTATION FOR ELECTRONICS SUPERCONDUCTIVE ELECTRONICS INC	PFISTER HENRY	N 06 30/01/90 \$48,529	WEINSTOCK 90-NE-121	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PREPARATION AND CHARACTERIZATION OF HIGH TEMPERATURE SUPERCONDUCTOR FILM SURFACES YALE UNIVERSITY	PROSSER	N 24 22/02/90 \$39,997	A WEINSTOCK 90-NE-140	\$39,997 01/06/90 \$39,997
SENSITIVE DETECTION OF NEW SUPERCONDUCTORS CREATED AT ULTRA HIGH PRESSURES UNIV OF CALIFORNIA, SAN DIEGO	SCHULTZ	N 18 05/03/90 \$148,492	A WEINSTOCK 90-NE-142	\$148,492 01/08/90 \$148,492
HIGH-RESOLUTION SQUID MAGNETOMETRY FOR NON-DESTRUCTIVE EVALUATION VANDERBILT UNIVERSITY	WIKSNO, JR.	R 24 13/03/90 \$181,694	A WEINSTOCK 90-NE-147	\$86,695 01/09/90 \$181,694
THE CHEMISTRY OF THE VSH SURFACE AND SOME POSSIBLE USEFUL CONSEQUENCES OF JOSEPHSON JUNCTION STUDIES & DEVICES MARTIN GUFMAN ASSOCIATES	SINCLAIR	N 06 20/03/90 \$156,003	A WEINSTOCK 90-NE-152	\$50,000 01/07/90 \$50,000
STUDY OF THE VORTEX-GLASS PHASE TRANSITION IN HIGH TC SUPERCONDUCTORS OHIO STATE UNIVERSITY	LEMBERGER	N 36 30/03/90 \$209,404	WEINSTOCK 90-NE-154	
MODELING OF QUANTUM DEVICES ANALATOM INC	LASKOWSKI	N 06 11/01/90 \$49,942	MITT 90-NE-048	
NUMERICAL MODELING OF AMORPHOUS-THIN SEMICONDUCTOR HETEROSTRUCTURES UNIVERSAL ENERGY SYSTEMS INC	JOGAI	N 06 11/01/90 \$52,071	A MITT 90-NE-049	\$50,000 05/07/90 \$50,000
GAAS SPREADING RESISTANCE MEASUREMENT INSTRUMENT FOUR DIMENSIONS, INC	CHEN	N 06 11/01/90 \$50,000	MITT 90-NE-050	
QUANTUM STRUCTURES AND DEVICES INTERSCIENCE INC	SARAVIA	N 06 11/01/90 \$48,558	MITT 90-NE-051	

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QUANTUM STRUCTURES AND DEVICES SCIENTIFIC RESEARCH ASSOCIATES, INC.	GRUSIN HAROLD	N 06 11/01/90 \$59,920	A WITT 90-NE-052	\$49,982 05/07/90 \$49,982
QUANTUM ELECTRONIC STRUCTURES UTILIZING ATOMIC-SCALE DOPANT LOCALIZATION SPIRE CORPORATION	VERNON STANLEY	N 06 11/01/90 \$59,970	WITT 90-NE-053	
MICROSENSOR USING VLSI TECHNOLOGY CHEMTECH SYSTEMS, INC.	GOPIKANTH M	N 06 11/01/90 \$63,356	WITT 90-NE-054	
CONDUCTING POLYMER BASED SENSORS CHEMTECH SYSTEMS, INC.	GOPIKANTH M	N 06 11/01/90 \$63,356	WITT 90-NE-055	
(SBIR 90) HIGH SPEED MODULATION THROUGH FREQUENCY DOUBLING PHYSICAL RESEARCH	HAMMOND RICHARD	N 06 24/01/90 \$37,300	WITT 90-NE-097	
(SBIR 90) QUANTUM MANUFACTURE LOGIC DEVICE IMAGINATION WORKS	CASSELMAN STEPHEN	N 06 24/01/90 \$50,000	WITT 90-NE-098	
(SBIR 90) QUASI-PARTICLE TUNNELING DEVICE FABRICATION PAGE AUTOMATED TELECOMMUNICATIONS SYS CO	WIENER PATRICIA	N 06 24/01/90 \$50,000	WITT 90-NE-099	
(SBIR 90) DEVELOPMENT OF A HALL EFFECT MIXER COSOFY DESIGNS, INC	COMEN NATHANIEL	N 06 30/01/90 \$53,279	WITT 90-NE-110	
(SBIR 90) SEMICONDUCTOR WAFER HOMOGENEITY TESTER NAUDAN SYSTEM	HOWELL WILLIAM	N 06 06/02/90 \$62,208	WITT 90-NE-126	

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PHYSICS OF GRANULAR MAGNETOELECTRONICS ARIZONA STATE UNIVERSITY	FERRY	N 12 13/02/90 \$7,000	A WITT 90-NE-134	\$7,000 90/01/05 \$7,000
JOSEF FELLOWSHIP PROGRAM MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ALLEN	N 12 16/02/90 \$118,000	A WITT 90-NE-135	\$36,766 15/06/90 \$118,000
JOINT SERVICES ELECTRONICS PROGRAM FELLOWSHIP HARVARD UNIVERSITY	TINKHAM	N 12 16/02/90 \$62,200	A WITT 90-NE-136	\$20,500 15/06/90 \$62,200
JOINT SERVICES ELECTRONICS PROGRAM FELLOWSHIP COLUMBIA UNIVERSITY	FLYNN	N 12 16/02/90 \$71,263	A WITT 90-NE-137	\$29,495 15/06/90 \$71,263
MATERIAL RESEARCH SOCIETY SYMPOSIUM "DEFECTS IN MATERIALS" MATERIALS RESEARCH SOCIETY	GALLANCE	N 12 09/03/90 \$2,500	WITT 90-NE-146	
THE IMPACT OF LOW TEMPERATURE MATERIALS ON THE BREAKDOWN AND NOISE PROPERTIES OF GASES AND INSULATING MATERIALS AND DEFECTS NORTH CAROLINA STATE UNIVERSITY	MISHRA	N 36 13/03/90 \$337,920	A WITT 90-NE-148	

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ANDA RECEPTOR FUNCTION AND LEARNING UNIV OF SOUTHERN CALIFORNIA	SAUDRY MICHEL	N 36 08/01/90 \$401,406	BERRY 90-NL-044	
COORDINATED ACTION IN 3-D SPACE UNIV OF MARYLAND	STEINMAN ROBERT	N 60 25/01/90 \$1,463,387	SERRY 90-NL-055	
SECOND INTERNATIONAL CONFERENCE ON SODIUM/CALCIUM EXCHANGE NEW YORK ACADEMY OF SCIENCES	SLAUSTEIN MORDECAI	N 12 20/02/90 \$10,000	SERRY 90-NL-099	
1990 ANNUAL MEETING OF THE IUPS COMMISSION ON GRAVITATIONAL PHYSIOLOGY GALILEO FOUNDATION	PACE NELLO	N 12 22/02/90 \$10,000	BERRY 90-NL-100	
THE THIRD INTERNATIONAL CONFERENCE ON BRAIN PHOSPHOPROTEINS MOLECULAR, CELLULAR AND BEHAVIORAL REGULATION OF FUNCTION NORTHWESTERN UNIVERSITY	POUTTENBERG ARYEH	N 12 01/02/90 \$18,120	BERRY 90-NL-102	
FOURTH CONFERENCE ON THE NEUROBIOLOGY OF LEARNING AND MEMORY UNIV OF CALIFORNIA	MCGAUGH JAMES	N 12 13/03/90 \$20,000	BERRY 90-NL-115	
SURFACTANT-ENHANCED INSITU IRRADIATION OF STRONGLY SORBING ORGANIC SUBSTANCES IN SOIL ENVIRONMENTS PRINCETON UNIVERSITY	JAFFE PETER	N 24 16/01/90 \$315,238	CERVENY 90-NL-046	
SYMPOSIUM ON MECHANISMS OF OXIDATIVE INJURY IN THE SPAIN CEREBROVA SCULATURE UNDERSEA & HYPERBARIC MEDICAL SOCIETY	GREENBAUM, JR LEON	N 06 16/01/90 \$2,500	A CERVENY 90-NL-048	\$2,500 01/03/90 \$2,500
MECHANISMS OF COLA-MEDIATED IMMUNOSUPPRESSION VIRGINIA COMMONWEALTH UNIVERSITY	KAMINSKI NORBERT	N 48 16/01/90 \$658,258	CERVENY 90-NL-049	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE ASIAN TOXICOLOGY CONFERENCE TOUR UNIV OF ARKANSAS	CHANG LOUIS	N 12 29/01/90 \$20,000	A CERVENY 90-NL-058	\$20,000 15/03/90 \$20,000
DEVELOPMENT OF A PROTOCOL TO PREDICT NEUROTOXICITY NORTHEAST RESEARCH INSTITUTE, INC	FINHORN IRVING	N 06 05/02/90 \$49,851	CERVENY 90-NL-060	
EARLY INDICATORS OF ORGANOPHOSPHATE TOXICITY NORTHEAST RESEARCH INSTITUTE, INC	EINHORN IRVING	N 06 05/02/90 \$49,982	CERVENY 90-NL-061	
NONINVASIVE, EFFICIENT SCREENING FOR TOXIC EXPOSURE TOPICAL TESTING INC.	FISHER JOHN	N 06 05/02/90 \$50,000	CERVENY 90-NL-077	
PERFORMANCE TESTS AS EARLY INDICATORS OF TOXIC INSULT AND SPECIFICITY OF EFFECT ESSEX CORPORATION	KENNEDY ROBERT	N 06 05/02/90 \$49,358	CERVENY 90-NL-078	
XENOBIOTIC KINETICS AND TOXICITY AMONG FISH AND MAMMALS OHIO STATE UNIVERSITY	HAYTON WILLIAM	N 18 06/02/90 \$133,515	A CERVENY 90-NL-090	\$133,515 01/05/90 \$133,515
MECHANISMS OF TOXICITY AND BENCHMARKS OF HYPOXIC ENDOTHELIAL INJURY COLUMBIA UNIVERSITY	STERN DAVID	N 36 08/02/90 \$328,339	CERVENY 90-NL-081	
IN VITRO SYSTEM FOR STUDYING METABOLISM OF ENVIRONMENTAL CHEMICALS IN HUMAN CELLS SRI INTERNATIONAL	GREEN CAROL	N 36 08/02/90 \$329,644	CERVENY 90-NL-082	
APPLICATION OF NEURAL NET TECHNOLOGY TO CHEMICAL STRUCTURE-ACTIVITY CONSIDERATIONS WESTON (SCV F.), INC	HUSHEN JUDITH	N 12 09/02/90 \$100,000	CERVENY 90-NL-083	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PANCREATIC TOXICITY OF GLUTATHIONE AND CYSTEINE S-CONJUGATES UNIV OF ROCHESTER	M ANDERS	N 36 08/02/90 \$498,324	CERVENY 90-NL-084	
FREE RADICALS OF BIOCHEMICAL IMPORTANCE TULANE UNIVERSITY	CARL BERMOFSKY	R 36 09/02/90 \$395,037	CERVENY 90-NL-085	
THE MINIMIZATION OF ORGANIC AND METALLIC INDUSTRIAL WASTE VIA LEMN A MINOR CONCENTRATION TECHNICAL RESEARCH ASSOCIATES INC.	GAIL BOWERS-IPONS	N 36 08/02/90 \$300,000	CERVENY 90-NL-086	
DEVELOPMENT OF A FISH STRESS PROTEIN ANTIBODY/ANTIGEN-BASED APPROACH FOR MONITORING OF WATER QUALITY UNIV OF NORTH TEXAS	EARL ZIMMERMAN	N 24 08/02/90 \$251,815	CERVENY 90-NL-087	
THE UTILITY OF MACROMOLECULAR ADDUCTS FOR EVALUATION OF CYTOTOXIC AND GENOTOXIC POTENTIAL ENVIRONMENTAL PROTECTION AGENCY -- LAB	GERALD ZAROGGIAN	N 36 08/02/90 \$295,414	CERVENY 90-NL-088	
INTERACTION OF ELECTROSTATIC FIELDS WITH CHONDROCYTES IN GEL CULTURE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ALAN GRODZINSKY	N 36 15/02/90 \$605,125	CERVENY 90-NL-092	
IMAGE ANALYSIS OF VIRAL-EXPRESSING MOUSE MACROPHAGE CELLS TRINITY UNIVERSITY	ROBERT FLYSTONE	N 06 08/03/90 \$37,300	A CERVENY 90-NL-109	\$35,000 01/07/90 \$35,000
THE SYLVIA BEACH LANGUAGE COMPREHENSION CONFERENCE, 1990 UNIV OF GREGG	MORTON GERNSBACHER	N 12 08/01/90 \$8,983	A FREGLY 90-NL-045	\$8,983 01/04/90 \$8,983
TOPOGRAPHIC MAP READING UNIV OF MINNESOTA	PICK, JR HERBERT	R 36 23/01/90 \$451,290	FREGLY 90-NL-050	

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SPONTANEOUS DISCOVERY AND USE OF CATEGORICAL STRUCTURES STANFORD UNIVERSITY	POWER GORDON	R 4A 23/01/90 \$900,062	FREGLY 90-NL-051	
EVOKED POTENTIALS AND INTERSENSORY INFORMATION PROCESSING COLORADO STATE UNIVERSITY	JUNON JORGE	N 36 23/01/90 \$358,246	FREGLY 90-NL-052	
VIRTUAL REALITY, INSTRUMENT FLYING, AND TRAINING HIGH-PERFORMANCE SKILLS TEXAS A AND M RESEARCH FOUNDATION	SHERILSKE W	N 36 23/01/90 \$218,471	FREGLY 90-NL-053	
MEMORY AND USE OF EXAMPLES IN PROBLEM SOLVING. PRINCETON UNIVERSITY	REISER BRIAN	N 36 23/01/90 \$341,986	FREGLY 90-NL-054	
ROLE-BASED DECISION STRATEGIES RESEARCH DEVELOPMENT CORPORATION	CAMPELL VINCENT	N 06 05/02/90 \$58,659	FREGLY 90-NL-062	
SCALP DISTRIBUTION OF EEG ENERGY DENSITY DISTRIBUTION DURING MENTAL EFFORT CENTER FOR NEURODIAGNOSTIC STUDY, INC.	QUISADO RAUL	N 06 05/02/90 \$369,000	FREGLY 90-NL-063	
LIFE SCIENCES BASIC RESEARCH (COGNITION) ANALYTICS INCORPORATED	GOMBERG BRUCE	N 06 05/02/90 \$52,620	FREGLY 90-NL-068	
EFFECTS OF TIME STRESS ON DECISION PROCESSES KLEIN ASSOCIATES, INC.	KLEIN GARY	N 06 05/02/90 \$55,796	FREGLY 90-NL-073	
COGNITIVE PERFORMANCE M-ASSJEC UNDER ENVIRONMENTAL STRESS GCA ASSOCIATION	AGARWAL GYAN	N 06 05/02/90 \$49,500	FREGLY 90-NL-074	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PERCEPTUAL SPEED, SWITCHING, AND TEMPORAL ACUITY FACTORS IN COGNITION ESSEX CORPORATION	KENNEDY ROBERT	N 06 05/02/90 \$43,992	FREGLY 90-NL-075	
EFFECTS OF REM AND NON-REM SLEEP DEPRIVATION ON LEARNING A SIMULATED FLYING TASK ESSEX CORPORATION	KENNEDY ROBERT	N 06 05/02/90 \$49,900	FREGLY 90-NL-076	
THE EFFECT OF STRESSORS ON MEMORY AND EVALUATION BASIS IN INDIVIDUAL JUDGMENT AND CHOICE MIAMI UNIVERSITY	STASSER GAROLO	N 36 08/02/90 \$619,309	FREGLY 90-NL-089	
RETRIEVAL AND JUDGMENT PROCESS IN MEMORY UNIV OF OREGON	HINTZMAN DOUGLAS	N 36 15/02/90 \$363,726	FREGLY 90-NL-093	
REASONING DEDUCTIVELY ABOUT CAUSATION UNIV OF ARIZONA	CUMMINS DENISE	N 36 15/02/90 \$155,057	FREGLY 90-NL-094	
THE ROLE OF GENERAL SCENE STRUCTURE IN PERCEIVING AND REMEMBERING PICTURES UNIV OF DELAWARE	INTRAB HELENQ	N 36 15/02/90 \$260,973	FREGLY 90-NL-095	
ATTENTION IN THE PERCEPTION OF SIMPLE SCENES UNIV OF WASHINGTON	PALMER JOHN	N 36 15/02/90 \$303,612	FREGLY 90-NL-096	
FRAMES IN HUMAN KNOWLEDGE GEORGIA INSTITUTE OF TECH	SARSALOU LARENCE	N 36 01/03/90 \$273,546	FREGLY 90-NL-104	
TOWARD A UNIFIED CODING ACCOUNT OF COMPATIBILITY PHENOMENA PURDUE UNIVERSITY	PROCTOR ROBERT	N 24 01/03/90 \$199,975	FREGLY 90-NL-105	

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MULTIPLE REPRESENTATIONS OF SPATIAL KNOWLEDGE IN COGNITIVE MAPS UNIV OF PITTSBURGH	HIRTLE STEPHEN	N 36 01/03/90 \$368,400	FREGLY 90-NL-106	
ORAL TRADITIONS AS MEMORY SYSTEMS DUKE UNIVERSITY	RUBIN DAVID	N 36 01/03/90 \$287,727	FREGLY 90-NL-107	
IN PARTIAL SUPPORT OF THE PERCEPTUAL PERFORMANCE PHOTOTYPE AEROSPACE MEDICAL RESEARCH LABORATORY	ROFF KENNETH	N 7 08/03/90 \$60,000	A FREGLY 90-NL-108	960,000 08/03/90 960,000
DEVELOPMENT AND APPLICATION OF A MODEL OF INDIVIDUAL DECISION-MAKING IN MILITARY CONTEXTS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	OSHERSON DANIEL	N 36 13/03/90 \$450,418	FREGLY 90-NL-113	
A NEUROPSYCHOLOGICAL EXAMINATION OF SKILLS AND CAPACITIES COMPRISING "ATTENTION" BRANDEIS UNIVERSITY	PRATHER PENNY	N 36 13/03/90 \$409,468	FREGLY 90-NL-114	
THE ROLE OF MENTAL SIMULATION IN TIME-PRESSURED DECISION MAKING KLEIN ASSOCIATES, INC.	KLEIN GARY	N 36 23/03/90 \$420,883	FREGLY 90-NL-117	
SEEKING INFORMATION AND COMPARING JUDGMENTS FOR DECISION MAKING UNIV OF NORTH CAROLINA	WALLSTEN THOMAS	N 36 23/03/90 \$236,861	FREGLY 90-NL-118	
REPRESENTATION OF KINEMATIC, BIOCHEMICAL, AND SHAPE INFORMATION UNIV OF TEXAS	PARSONS LAWRENCE	N 36 27/03/90 \$242,789	FREGLY 90-NL-120	
NEUROPSYCHOLOGICAL COMPONENTS OF OBJECT IDENTIFICATION HARVARD COLLEGE	KOSSLYN STEPHEN	N 36 27/03/90 \$690,032	FREGLY 90-NL-121	

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NEUROPSYCHOLOGICAL FOUNDATION OF EVENT-MEMORY				
LOS ALAMOS NAT'L LAB--APPL THEOP PHYS DV	LEWINE	N 60 27/03/90 \$549,200	FREGLY 90-NL-122	
THE ROLE OF KNOWLEDGE STRUCTURES IN NOVICE AND EXPERT PROBLEM SOLVING				
IOHMO UNIVERSITY	GORDON	N 36 27/03/90 \$267,235	FREGLY 90-NL-123	
RESPONSE MODE COMPATIBILITY UNDER TIME STRESS				
DECISION RESEARCH	MAGGREGOR	N 36 27/03/90 \$689,194	FREGLY 90-NL-124	
PERCEPTION AND MEMORY OF PICTURES				
NEW YORK UNIVERSITY	SNODGRASS	R 36 27/03/90 \$440,853	FREGLY 90-NL-125	
CONTENT EFFECTS IN DEDUCTIVE REASONING				
CARLETON COLLEGE	GALOTTI	N 18 27/03/90 \$34,577	FREGLY 90-NL-126	
NEURAL MECHANISMS MEDIATING VISUAL SELECTIVE ATTENTION				
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	AINE	N 36 27/03/90 \$370,400	FREGLY 90-NL-127	
VISUAL PROCESSING STREAMS: INTERDEPENDENCE, COOPERATIVITY, AND 3-D REPRESENTATION				
HARVARD UNIVERSITY	CAVANAGH	N 36 16/01/90 \$1,081,376	TANGNEY 90-NL-047	
LATERAL HETEROPHOPIA AND VISUAL LOCALIZATION				
TEXAS A AND M RESEARCH FOUNDATION	SHERILSKY	N 36 26/01/90 \$201,179	TANGNEY 90-NL-056	
VISUAL PERCEPTION OF ELEVATION				
COLUMBIA UNIVERSITY	MATTH	N 60 26/01/90 \$1,919,971	TANGNEY 90-NL-057	

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COMPREHENSION AND MEMORY IN LEARNING LEXICAL STRUCTURE AT DIFFERENT LEVELS OF SKILL MONTCLAIR STATE COLLEGE	DAVID TOWNSEND	N 12 11/01/90 \$30,193	TANGNEY 90-NL-059	
COMPUTATIONAL NEUROSCIENCE: CORTICOSPINAL LIFE GROUP CONNECTIONS HOFFMANN	HOFFMAN WILLIAM	N 06 05/02/90 \$33,977	TANGNEY 90-NL-064	
THE PSYCHOPHYSICAL BASIS OF VISUAL SCANNING FOR INFORMATION ACQUISITION ANALYTICS INCORPORATED	DICK ALFRED	N 06 05/02/90 \$52,734	TANGNEY 90-NL-065	
COMPUTATIONAL NEUROSCIENCE: SYMMETRIC DIFFERENCE MODEL HOFFMANN	HOFFMAN WILLIAM	N 06 05/02/90 \$32,103	TANGNEY 90-NL-066	
SYNTHETIC WAVE FRONT INTERFEROMETRY (SWFID) USED IN EYE MOTION SENSORS -- SWFID-EMS PROGRAM APPLIED MODERN TECHNOLOGIES CORP	HAAS WILLIAM	N 06 05/02/90 \$49,911	TANGNEY 90-NL-057	
INTEGRATED SIMULATION OF BIO-Acoustic Sensory Information Processing ORINCON CORPORATION	THOMPSON TERENCE	N 06 05/02/90 \$49,873	TANGNEY 90-NL-059	
MENTAL WORKLOAD ASSESSMENT WITH NEURAL NETWORKS SAM TECHNOLOGY, INC.	GEVINS ALAN	N 06 05/02/90 \$49,707	A TANGNEY 90-NL-070	\$49,707 01/09/90 \$49,707
QUANTIFYING IMPROVED VISUAL PERFORMANCE THROUGH VISION TRAINING VISION SCIENCES RESEARCH CORP	GINSBURG ARTHUR	N 06 05/02/90 \$49,298	A TANGNEY 90-NL-071	\$49,298 01/09/90 \$49,298
DEVELOPMENT OF A TAXONOMY, HANDBOOK, AND INSTRUMENTS FOR PSYCHOPHYSICALLY BASED VISUAL TESTS ESSEX CORPORATION	KENNEDY ROBERT	N 06 05/02/90 \$49,872	TANGNEY 90-NL-072	

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MECHANISMS FOR SOUND PATTERN RECOGNITION AND AUDITORY INFORMATION PROCESSING IN ECHOLALIA PAT, UNIV OF CALIFORNIA	ROVERUD	N 36 06/02/90 \$321,371	D TANGNEY 90-NL-079	
TRAINING IN COMPUTATIONAL NEUROSCIENCE AT THE COLD SPRING HARBOR L ABORATORY COLD SPRING HARBOR LAB OF QUANTITATIVE	MOCKFIELD	N 48 15/02/90 \$461,036	TANGNEY 90-NL-090	
EFFECTS OF DYNAMIC FORCE ENVTS ON SPINOSPINAL INTEGRATION AND PER CEPTION UNIV OF TEXAS	WOLFE	N 36 15/02/90 \$431,505	TANGNEY 90-NL-091	
REPRESENTATIONS OF SHAPE IN OBJECT RECOGNITION AND LONG-TERM VISUA L MEMORY YALE UNIVERSITY	TARR	N 60 15/02/90 \$645,708	TANGNEY 90-NL-097	
THE ROLE OF VISUAL ATTRIBUTES IN TEXTURE SEGREGATION AND PATTERN F ORMATION RUTGERS - THE STATE UNIVERSITY	PAPATHOMAS	N 36 20/02/90 \$316,914	TANGNEY 90-NL-098	
TUTORIALS IN MOTOR NEUROSCIENCE: ADVANCED STUDY INSTITUTE UNIV OF WISCONSIN	STELWACH	N 06 01/03/90 \$28,800	TANGNEY 90-NL-101	
AUDITORY PROCESSING OF UNCERTAIN STIMULI BOYS TOWN NATIONAL INSTITUTE	NEFF	N 36 01/03/90 \$373,880	TANGNEY 90-NL-103	
PSYCHOPHYSICAL STUDIES OF VISUAL CORTICAL FUNCTION HARVARD UNIVERSITY	NAKAYAMA	N 12 12/03/90 \$173,389	A TANGNEY 90-NL-110	\$173,389 01/09/90 \$173,389
SPECTRAL SHAPE AS ACOUSTIC CUES FOR SPEECH PERCEPTION OLD DOMINION UNIVERSITY	ZACHRIAN	N 24 13/03/90 \$266,671	TANGNEY 90-NL-111	

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HUMAN ADAPTION TO ALTERED GRAVITATIONAL ENVIRONMENTS UNIV OF SOUTHERN CALIFORNIA	WELCH ROBERT	N 60 13/03/90 \$1,087,531	TANGNEY 90-NL-112	
NEUROMUSCULAR ADAPTION TO ALTERED FORCE ENVIRONMENTS UNIVERSITY OF STIRLING	ROSS HELEN	N 36 15/03/90 \$291,072	TANGNEY 90-NL-116	
CONTEXT DETERMINES JUDGMENTS DUKE UNIVERSITY	LOCKHEAD GREGORY	R 36 23/03/90 \$409,375	TANGNEY 90-NL-119	
EVOLUTION, DEVELOPMENT AND LEARNING IN NEURAL NETWORKS STANFORD UNIVERSITY	FELDMAN MARCUS	N 60 29/03/90 \$621,659	D TANGNEY 90-NL-120	

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IX-TM INTERNATIONAL CONFERENCE ON MULTIPLE CRITERIA DECISION MAKING GEORGE MASON UNIVERSITY	AMROUSE	N 12 12/01/90 \$3,200	GLASSMAN 90-NM-134	\$49,249 01/06/90 \$49,249
POLYHEDRAL METHODS FOR THE MAX-CUT PROBLEM RICE UNIVERSITY	ROBERT	N 12 12/01/90 \$49,249	A GLASSMAN 90-NM-137	\$49,249 01/06/90 \$49,249
INTERACTIVE DISTRIBUTED LOGISTICS MANAGEMENT COMPUTER AIDED PLAN & SCHEDULE INC.	WILLIAM	N 06 12/01/90 \$50,000	A GLASSMAN 90-NM-143	\$50,000 01/07/90 \$50,000
ROUTING AND SCHEDULING ON MICROCOMPUTERS SPARTA INC.	ALBERT	N 06 12/01/90 \$50,179	D GLASSMAN 90-NM-144	\$50,000 01/07/90 \$50,000
MICROCOMPUTER-BASED VEHICLE ROUTING AND SCHEDULING METROLOGIC, INC	JAMES	N 06 12/01/90 \$55,000	A GLASSMAN 90-NM-145	\$50,000 01/07/90 \$50,000
RAPIDLY CONVERGENT ALGORITHMS FOR NONSMOOTH OPTIMIZATION WASHINGTON STATE UNIVERSITY	ROBERT	R 36 19/01/90 \$164,320	GLASSMAN 90-NM-148	
A ROUTING AND SCHEDULING ALGORITHM FOR SMALL SCALE COMPUTER SYSTEMS SRS TECHNOLOGIES/SYSTEMS TECHNOLOGY DIV	ROBERT	N 06 22/01/90 \$49,994	D GLASSMAN 90-NM-153	
ROUTING AND SCHEDULING ON A MICROCOMPUTER ATLANTIC RESEARCH CORP	CHARLES	N 06 22/01/90 \$50,000	D GLASSMAN 90-NM-154	
ROUTING AND SCHEDULING ON MICRO COMPUTERS CIM SYSTEMS, INC	PRUCHYA	N 06 22/01/90 \$49,894	D GLASSMAN 90-NM-155	

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ROUTING AND SCHEDULING WORKSTATION DAWA	PUKITE	N 06 22/01/90 \$49,453	D GLASSMAN 90-NM-156	
ROUTING AND SCHEDULING ON MICROCOMPUTERS GRINCON CORPORATION	FOGEL	N 06 23/01/90 \$49,959	D GLASSMAN 90-NM-157	
MICROCOMPUTER NETWORK FOR SCHEDULING PROBLEMS MISSION RESEARCH CORP	BAKER	N 06 23/01/90 \$50,001	D GLASSMAN 90-NM-158	
ROUTING AND SCHEDULING ON MICROCOMPUTERS SEAGULL TECHNOLOGY, INC	KARNARKAR	N 06 23/01/90 \$50,000	D GLASSMAN 90-NM-159	
ITERATIVE CONSTRAINT SATISFACTION FOR ROUTING AND SCHEDULING ON MICROCOMPUTERS HCR INC. (L. WOERNER INC.)	HALBACH	N 06 29/01/90 \$49,595	D GLASSMAN 90-NM-167	
VEHICLE ROUTING ON MICROCOMPUTERS RISH EVALUATION & MANAGEMENT, INC	MASCH	N 06 29/01/90 \$65,000	GLASSMAN 90-NM-168	
SOLVING ROUTING AND SCHEDULING PROBLEMS EFFICIENTLY ON NETWORKS OF MICROCOMPUTERS REDDY RESEARCH CONSULTANTS	REDDY	N 06 29/01/90 \$50,000	D GLASSMAN 90-NM-169	
ROUTING AND SCHEDULING ON MICROCOMPUTERS CORPORATE PLANNING RESEARCH GROUP	GLEASON	N 06 29/01/90 \$49,427	D GLASSMAN 90-NM-170	
NOVEL NON-LINEAR OPTIMIZATION METHODS FOR INTEGRATED CIRCUITS DESIGN AND MANUFACTURING UNIV OF WISCONSIN	HU	N 36 01/02/90 \$309,210	GLASSMAN 90-NM-177	

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STOMAS 2C NETWORK PROCESSES				
GEORGIA INSTITUTE OF TECH	SERFOZO	R 12 06/02/90 \$69,474	GLASSMAN 90-MM-189	
STUDYING THE FEASIBILITY OF DEVELOPING A MEANINGFUL AND IMPLEMENTABLE METHODOLOGY FOR ASSESSING JSCA EFFECTIVENESS RUTGERS - THE STATE UNIVERSITY	PIERRE	N 12 27/02/90 \$41,000	A GLASSMAN 90-MM-207	\$41,000 01/06/90 \$41,000
RESEARCH IN MIXED INTEGER PROGRAMMING				
GEORGIA TECH RESEARCH CORPORATION	NENHAUSER	N 12 06/03/90 \$50,000	A GLASSMAN 90-MM-216	\$50,000 30/09/90 \$50,000
OPTIMIZATION ALGORITHMS FOR VLSI COMPUTER ARCHITECTURES WITH APPLICATION TO ROUTING AND SCHEDULING SOUTHERN METHODIST UNIVERSITY	KENNINGTON	N 12 09/03/90 \$60,824	GLASSMAN 90-MM-224	
STOCHASTIC DYNAMIC OPTIMIZATION: SOLUTION PROCEDURES UNIV OF CALIFORNIA	WETS	N 36 16/03/90 \$252,761	GLASSMAN 90-MM-227	
MATHEMATICAL FOUNDATION OF COMBINATORIAL SEARCH UNIV OF COLORADO	GLOVER	N 36 22/03/90 \$481,177	A GLASSMAN 90-MM-230	\$79,904 01/07/90 \$481,177
RESEARCH IN GRAPH ALGORITHMS AND COMBINATORIAL OPTIMIZATION STANFORD UNIVERSITY	PLOTKIN	N 36 23/03/90 \$497,896	GLASSMAN 90-MM-235	
MODELS BASED PARAMETRIC PERFORMANCE UNIV OF COLORADO AT DENVER	ALAGRAND	N 36 07/02/90 \$555,518	HOLLAND 90-MM-190	
DETECTION, STABILIZATION, AND IDENTIFICATION OF MOVING OBJECTS BY A MOVING OBSERVER UNIV OF ROCHESTER	NELSON	N 24 22/02/90 \$119,062	HOLLAND 90-MM-199	

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COMPLETE TOOL SET FOR DEVELOPING LARGE SCALE SIGNAL PROCESSING APPLICATIONS ON MULTICOMPUTERS CARNEGIE-MELLON UNIVERSITY	KUNG	N 36 08/03/90 \$743,963	A HOLLAND 90-NM-218	\$200,000 01/05/90 \$200,000
DESIGN OF CONTROLLERS FOR LINEAR PARAMETER-VARYING SYSTEMS BY THE GAIN SCHEDULING TECHNIQUE BERKELEY ENGINEERING RESEARCH INSTITUTE	RAZAVI	N 06 12/01/90 \$61,550	JACOBS 90-NM-136	
PARAMETER ESTIMATION IN MOVING BOUNDARY PROBLEMS UNIV OF NORTH CAROLINA	MURPHY	N 36 12/01/90 \$88,379	JACOBS 90-NM-139	
STATISTICAL AND NUMERICAL METHODS IN CONTROL AND IDENTIFICATION UNIV OF TENNESSEE	FITZPATRICK	N 36 24/01/90 \$58,000	JACOBS 90-NM-160	
DISCRETE-TIME SYSTEMS ON MANIFOLDS WASHINGTON UNIVERSITY	ELLIOTT	N 24 01/02/90 \$107,915	JACOBS 90-NM-171	
DESIGN OF ROBUST DIGITAL CONTROLLERS RICE UNIVERSITY	PEARSON	N 12 01/02/90 \$80,000	JACOBS 90-NM-175	
LARGE SCALE AND PARALLEL COMPUTATIONS IN CONTROL NORTHERN ILLINOIS UNIVERSITY	DATTA	N 36 01/02/90 \$351,492	JACOBS 90-NM-180	
SOME STABILITY PROBLEMS RELATED TO THE EDGE THEOREM WRIGHT STATE UNIVERSITY	PUJARA	N 24 06/02/90 \$92,647	JACOBS 90-NM-197	
SINGULAR STOCHASTIC CONTROL CARNEGIE-MELLON UNIVERSITY	SHREEVE	R 36 13/02/90 \$305,154	JACOBS 90-NM-194	

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STABILIZATION AND CONTROL PROBLEMS IN STRUCTURAL DYNAMICS TEXAS A AND M UNIV:PSITY	CMEN	R 36 13/02/90 \$336,197	JACOBS 90-NM-195	
ROBUST AND ADAPTIVE GUIDANCE AND CONTROL LAWS FOR MISSILE SYSTEMS UNIV OF CALIFORNIA	SPEYER	N 36 27/02/90 \$330,071	JACOBS 90-NM-202	
SIAM CONFERENCE ON LINEAR ALGEBRA IN SIGNALS, SYSTEMS, AND CONTROL SOCIETY FOR INDUSTRIAL & APPLIED MATH	BLOCK	N 12 02/03/90 \$10,000	JACOBS 90-NM-208	
NONLINEAR ESTIMATION BY STOCHASTIC OBSERVERS UNIV OF ARKANSAS	YAZ	N 48 09/03/90 \$234,540	JACOBS 90-NM-220	
DIGITAL ADAPTIVE AND OPTIMAL CONTROL OF DISTRIBUTED SYSTEMS UNIV OF CALIFORNIA	GIASON	N 36 09/03/90 \$245,302	JACOBS 90-NM-222	
ESTIMATION OF MATERIAL PARAMETERS FOR GRID STRUCTURES IOWA STATE UNIV OF SCIENCE AND TECH	MILLER	N 12 09/03/90 \$24,366	JACOBS 90-NM-223	
ROBUST STABILIZATION OF DISTRIBUTED PARAMETER CONTROL SYSTEMS UNIV OF NEBRASKA	REHARRER	N 24 16/03/90 \$35,949	JACOBS 90-NM-226	
ENERGY DECAY AND CONTROL FOR ELASTIC AND VISC ELASTIC DISTRIBUTED PARAMETER SYSTEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	HANNUSGEN	R 36 16/03/90 \$365,099	JACOBS 90-NM-228	
SIAM WORKSHOP IN AUTOMATIC SPECIFICATION OF ALGORITHMS: THEORY, IMPLEMENTATION SOCIETY FOR INDUSTRIAL & APPLIED MATH	ALJOCK	N 06 27/03/90 \$20,977	JACOBS 90-NM-236	

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ADAPTIVE ALGORITHMS FOR COMPUTATIONAL FLUID DYNAMICS NEW YORK UNIVERSITY	PERGER MARSHA	R 36 12/01/90 \$318,249	NACHMAN 90-NM-133	
RESEARCH IN DYNAMIC PROBLEMS ARISING IN MECHANICS AND CONTROL UNIV OF WISCONSIN	SLEMRUD MARSHALL	R 36 19/01/90 \$330,471	NACHMAN 90-NM-150	
ADVANCED COMPUTATIONAL APPROACHES TO PROBLEMS IN MICROLITHOGRAPHY AND PATTERN TRANSFER CLARKSON UNIVERSITY	BAPOUCH EYTAN	N 41 24/01/90 \$163,190	A NACHMAN 90-NM-162	\$10,000 29/03/90 \$10,000
DIFFERENTIAL EQUATIONS AND CONTINUUM MECHANICS CALIFORNIA INSTITUTE OF TECHNOLOGY	COMEN DONALD	R 36 01/02/90 \$136,541	A NACHMAN 90-NM-178	
PARALLEL COMPUTATIONS FOR VARIATIONAL FREE BOUNDARY PROBLEMS WITH APPLICATIONS IN FLUID MECHANICS UNIV OF CINCINNATI	STOJANOVIC SROJAN	N 12 01/02/90 \$19,912	NACHMAN 90-NM-179	
QUASI-NEWTON UPDATES FOR LAPLACE SCALE NONLINEAR SYSTEMS UTAH STATE UNIVERSITY	WALKER HOMER	N 36 06/02/90 \$208,003	NACHMAN 90-NM-186	
MULTILEVEL TECHNIQUES IN LARGE SCALE COMPUTATION COLORADO RESEARCH DEVELOPMENT CORP.	MCCORMICK STEPHEN	R 36 09/02/90 \$838,409	NACHMAN 90-NM-191	
DEVELOPMENT OF THE THEORY AND ALGORITHMS FOR SYNTHESIS OF REFLECTOR ANTENNA SYSTEMS MATIS INC	OLIKER VLADIMIR	N 06 09/02/90 \$28,362	NACHMAN 90-NM-192	
TO EXTEND THE THIRTEEN-MOMENT THEORY AND ITS APPLICATION TO PROBLEMS IN SUPERFIELD HYPERSONIC FLOWS UNIV OF SOUTHERN CALIFORNIA	CHENG H.	N 24 13/02/90 \$259,056	NACHMAN 90-NM-196	

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MATHEMATICAL ANALYSIS OF CAVITATION AND FRACTURE SOUTHERN ILLINOIS UNIVERSITY	SPECTOR	N 24 22/02/90 \$36,244	A NACHMAN 90-NM-198	\$18,321 01/04/90 \$18,321
NONLINEAR WAVE PHENOMENA IN HYDRODYNAMICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PENNEY	N 12 26/02/90 \$27,500	A NACHMAN 90-NM-201	\$27,500 01/07/90 \$27,500
WAVELETS TRANSFORMS IN PARALLEL IMAGE PROCESSING UNIV OF PITTSBURGH	LI	N 36 02/03/90 \$589,946	A NACHMAN 90-NM-211	\$215,342 01/06/90 \$646,026
MULTIVARIATE WAVELET REPRESENTATIONS AND APPROXIMATIONS UNIV OF CONNECTICUT	MADYCH	N 36 02/03/90 \$476,767	A NACHMAN 90-NM-212	\$158,330 01/06/90 \$476,990
APPLICATIONS OF WAVELETS TO RADAR, IMAGING, AND RELATED PROBLEMS DARTMOUTH COLLEGE	PROSSER	N 36 02/03/90 \$851,689	A NACHMAN 90-NM-213	\$243,265 01/07/90 \$729,795
WORKSHOP ON FUTURE DIRECTION IN CONTROL THEORY NATIONAL ACADEMY OF SCIENCES	COX	N 12 05/03/90 \$65,000	A NACHMAN 90-NM-214	\$65,000 01/09/90 \$65,000
NONLINEAR CONTINUUM MECHANICS RUTGERS - THE STATE UNIVERSITY (NEW)	COLEMAN	N 06 06/03/90 \$5,000	A NACHMAN 90-NM-215	\$5,000 01/04/90 \$5,000
THEORY AND APPLICATIONS OF THE 2D1 TRANSFORM WAVELETS WASHINGTON UNIVERSITY	WISS	N 36 09/03/90 \$589,785	A NACHMAN 90-NM-219	\$196,595 01/06/90 \$589,785
PARALLEL MATRIX COMPUTATIONS UNIV OF MARYLAND	STEWART	R 12 09/03/90 \$123,463	NACHMAN 90-NM-225	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
WAVELETS AND SCATTERING UNIV OF MISSOURI	WELLAND	N 36 22/03/90 \$161,468	A NACHMAN 90-NM-229	\$161,468 01/07/90 \$484,484
OSCILLATIONS IN NEURAL COMPUTATIONS JET PROPULSION LABORATORY	BALDI	N 36 23/03/90 \$198,400	NACHMAN 90-NM-232	
A NUMERICAL MODEL OF TIME-DEPENDENT CHEMICALLY REACTIVE BOUNDARY LAYERS TULANE UNIVERSITY	SOD	N 24 23/03/90 \$133,812	NACHMAN 90-NM-233	
GEFORM: DEVELOPMENT OF A NEW TECHNIQUE FOR IMAGE RECONSTRUCTION, ENHANCEMENT, AND VISUALIZATION CAMBRIDGE HYDRODYNAMICS INCORPORATED	MIGDAL	N 36 11/01/90 \$181,497	A SJOGREN 90-NM-130	\$39,675 01/06/90 \$181,497
MULTIVARIATE PROBLEMS OF STATISTICS AND INFORMATION THEORY COLORADO STATE UNIVERSITY	SRIVASTAVA	R 12 11/01/90 \$23,000	SJOGREN 90-NM-131	
A STUDY OF THE QUANTIFICATION OF UNCERTAIN INFORMATION VIRGINIA POLYTECHNIC INST & STATE UNIV	RAHMAN	N 24 12/01/90 \$191,471	SJOGREN 90-NM-138	
COMPUTING SCIENCE AND STATISTICS: SYMPOSIUM ON THE INTERFACE INTERFACE FOUNDATION OF NORTH AMERICA	LEPAGE	N 12 18/01/90 \$37,700	SJOGREN 90-NM-146	
COMPARATIVE STATISTICAL ANALYSIS OF THE TRACKING PERFORMANCE OF ADAPTIVE ALGORITHMS IN TIME-VARYING AND NON-STATIONARY ENVIRONMENT UNIV OF CALIFORNIA	BERSHAD	N 24 19/01/90 \$147,628	SJOGREN 90-NM-151	
INFERENCE PROCEDURES FOR LIFETIME DISTRIBUTIONS UNDER UNKNOWN ENVIRONMENTS BOSTON UNIVERSITY	LEF	N 24 19/01/90 \$49,425	SJOGREN 90-NM-152	

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STUDIES IN NONPARAMETRIC METHODOLOGIES UNIV OF CALIFORNIA	BURMAN	N 36 24/01/90 \$85,902	SJOGREN 90-NM-161	
SOME TOPICS IN NONPARAMETRIC FUNCTION ESTIMATION UNIV OF CALIFORNIA	MACK	N 36 29/01/90 \$136,250	SJOGREN 90-NM-165	
ORTHOGONAL SYSTEM OF FUNCTIONS UNIV OF MARYLAND	ELLIS	R 24 02/02/90 \$201,756	SJOGREN 90-NM-181	
STOCHASTIC MODELS IN RELIABILITY UNIV OF CALIFORNIA	ROSS	N 18 05/02/90 \$103,333	SJOGREN 90-NM-184	
SOME PROBLEMS IN IMPERFECT REPAIR AND MODELING REPAIRABLE SYSTEMS NEW JERSEY INSTITUTE OF TECHNOLOGY	SHATTACHARJEE	N 24 22/02/90 \$104,476	SJOGREN 90-NM-200	
PROBLEMS IN RELIABILITY THEORY STATE UNIVERSITY OF NEW YORK	BAXTER	N 36 27/02/90 \$187,904	SJOGREN 90-NM-203	
ENTROPY CRITERIA AND DIRECTED DISTANCES WITH APPLICATIONS TO STATISTICS, SIGNAL PROCESSING, OPTIMIZATION, AND INVERSE PROBLEMS UNIV OF LOWELL	JONES	N 24 27/02/90 \$95,818	SJOGREN 90-NM-204	
STUDIES IN STATISTICAL SIGNAL PROCESSING STANFORD UNIVERSITY	KAILATH	R 36 27/02/90 \$432,158	SJOGREN 90-NM-205	
QUEUEING THEORY AND SOME OF ITS APPLICATIONS IN COMPUTER SCIENCE AND ENGINEERING FLORIDA ATLANTIC UNIVERSITY	COOPER	N 24 27/02/90 \$410,532	SJOGREN 90-NM-206	

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SUPPORT FOR THE INSTITUTE FOR MATHEMATICS AND ITS APPLICATIONS UNIV OF MINNESOTA	FRIEDMAN AVNER	N 07 08/03/90 \$6,500	A SJOGREN 90-NM-217	\$6,500 01/06/90 \$6,500
ALGORITHMS FOR NON-LINEAR SYSTEMS: CODING AND COMMUNICATIONS BOSTON UNIVERSITY	HONER STEVEN	N 24 23/03/90 \$138,900	SJOGREN 90-NM-231	
COMBINATORIAL RELIABILITY AND REPAIR LAFAYETTE COLLEGE	TRALDI LORENZO	N 14 23/03/90 \$41,175	SJOGREN 90-NM-234	
RELIABLE PARALLEL PROGRAMMING USING PROGRAM COMPOSITION NOTATION AEROSPACE CORPORATION	CUTLER MELVIN	N 36 12/01/90 \$998,005	WAKSMAN 90-NM-135	
FOUNDATION FOR KNUTH-BENDIX MULTISTAGE COMPLETION PROCEDURES FLORIDA INTERNATIONAL UNIVERSITY	PELIN ALEXANDER	N 15 19/01/90 \$67,067	WAKSMAN 90-NM-149	
RESEARCH INTO THE DESIGN AND IMPLEMENTATION OF KNOWLEDGE-BASE SYSTEMS STANFORD UNIVERSITY	ULLMAN JEFFREY	R 24 29/01/90 \$263,371	WAKSMAN 90-NM-163	
INTELLIGENT DATABASE SYSTEM NORTHWESTERN UNIVERSITY	CADAM GHASSAN	N 36 01/02/90 \$4,029,362	WAKSMAN 90-NM-173	
CONFERENCE ON PROBABILITIES IN ARTIFICIAL INTELLIGENCE NEW MEXICO STATE UNIVERSITY	MCKEVIY PAUL	N 06 01/02/90 \$12,000	D WAKSMAN 90-NM-174	
STRUCTURED CLASSIFICATION OF TRANSFORMATIONS OF VISUAL STIMULI IOANO UNIVERSITY	MUNNE DEAN	N 48 01/02/90 \$131,102	WAKSMAN 90-NM-176	

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RESEARCH ON INTELLIGENT ERROR DETECTION AND REPAIR ADVISORY SYSTEMS VANDERBILT UNIVERSITY	BOURNE	R 07 02/02/90 \$47,602	A WAKSMAN 90-NM-182	\$47,602 01/04/90 \$47,602
RESEARCH ON COLLABORATIVE PLANNING HARVARD UNIVERSITY	GROSS	R 12 02/02/90 \$50,000	A WAKSMAN 90-NM-183	\$50,000 01/08/90 \$50,000
AVERAGE CASE ANALYSIS OF ALGORITHMS THAT INTEGRATE SIMILARITY-BASE AND EXPLANATION-BASED LEARNING UNIV OF CALIFORNIA	PAZZANI	N 36 05/02/90 \$179,855	WAKSMAN 90-NM-185	
WORKSHOP ON THE INTEGRATION OF NUMERICAL AND SYMBOLIC COMPUTING METHODS STATE UNIVERSITY OF NEW YORK	KAPUR	N 12 07/02/90 \$42,305	A WAKSMAN 90-NM-189	\$20,000 01/06/90 \$20,000
ADVANCED METHODS OF APPROXIMATE REASONING SRI INTERNATIONAL	PUSPINI	N 36 22/02/90 \$509,981	WAKSMAN 90-NM-197	
REVERSIBLE GRAMMARS FOR PARSING AND GENERATION NEW YORK UNIVERSITY	STRAZALKOWSKI	N 12 02/03/90 \$208,650	WAKSMAN 90-NM-209	
AUTOMATIC PROGRAM EXPLANATION AND MODIFICATION UNIV OF PENNSYLVANIA	PRYMES	R 36 02/03/90 \$488,667	A WAKSMAN 90-NM-210	\$35,841 01/05/90 \$174,841
STUDY OF THE NUMBER OF HIDDEN UNITS REQUIRED IN A FEEDFORWARD NEURAL NETWORK FOR CONTINUOUS INPUT/OUTPUT MAPPINGS WICHITA STATE UNIVERSITY	HORNHERTZMAN	N 36 09/03/90 \$381,062	WAKSMAN 90-NM-221	
INTELLIGENT SYSTEMS FOR IMAGE UNDERSTANDING STANFORD UNIVERSITY	PIHFORD	N 36 27/03/90 \$1,252,062	WAKSMAN 90-NM-237	

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THEORETICAL & NUMERICAL STUDY OF TURBULENT TRANSPORT IN PLASMAS TEXAS TECH UNIVERSITY	ISHIHARA OSAMU	R 06 16/01/90 \$13,500	A BARKER 90-NP-041	\$13,500 15/06/90 \$13,500
MAGNETIC DEFLECTION OSCILLATOR, A HIGH POWER OUTPUT RF SOURCE TETRA CORPORATION	ELIZONDO JUAN	N 12 24/01/90 \$48,965	BARKER 90-NP-044	
A MULTIPACITOR ELECTRON SOURCE FOR MICROWAVE PRODUCTION GENESIS RESEARCH	OWENS THOMAS	N 12 24/01/90 \$50,000	BARKER 90-NP-045	
INVESTIGATION OF ELECTRON BEAM-BREAKUP TRANSIT TIME OSCILLATOR AS A HIGH-POWER MICROWAVE SOURCE MISSION RESEARCH	MOSTROM MICHAEL	N 12 24/01/90 \$49,955	BARKER 90-NP-046	
HIGH PERFORMANCE VACUUM MICROELECTRONICS ON GAS FOR MICROWAVE AND MILLIMETER-WAVE APPLICATIONS MICROWAVE MONOLITHICS INC	SIU DANIEL	N 12 24/01/90 \$50,000	BARKER 90-NP-047	
POTENTIAL-WELL CONSERVING, HELICITY INJECTED ELECTRON-BEAM-DRIVEN MILLIMETER WAVE SOURCE; MODIFIED ORBITON AMERICAN RESEARCH CORP OF VIRGINIA	NIMURA M.	N 12 24/01/90 \$50,000	A BARKER 90-NP-048	\$50,000 01/07/90 \$50,000
NOVEL SOURCE OF INCREASED TO SUBMILLIMETER COHERENT RADIATION PHYSICS & ENGINEERING RESEARCH	AMIR AVNER	N 12 24/01/90 \$49,922	BARKER 90-NP-049	
A COMPACT, HIGH-POWER SOURCE OF MILLIMETER AND SUBMILLIMETER WAVES PHYSICS & ENGINEERING RESEARCH	AMIR AVNER	N 12 24/01/90 \$49,922	BARKER 90-NP-050	
HIGH POWER MICROWAVE SOURCE BEN FRANKLIN INDUSTRIES	LURKIN VALE	N 12 24/01/90 \$50,000	BARKER 90-NP-051	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	MISSION RESEARCH CORP	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ELECTROMAGNETIC-MICROWAVE-ELECTRON LASERS	PASOUR	JOHN	N 12 24/01/90 \$55,561	BARKER 90-NP-052	
ULTRASOUND, BROADBAND TUNABLE, FLIGHT CAPABLE, OPTICALLY PUMPED FIR LASER	MCHAMMAN, JR	ROBERT	N 12 29/01/90 \$48,409	BARKER 90-NP-055	
A MODERATE TO HIGH POWER 100 GHz ELECTRON BEAM-GRATING COUPLED OSCILLATOR	GROSS	MICHAEL	N 12 29/01/90 \$49,900	BARKER 90-NP-056	
A NOVEL SOURCE OF MILLIMETER WAVES BASED ON BEAM-PLASMA INTERACTIONS	KIRKMAN-AMEMIYA	GEORGE	N 12 29/01/90 \$49,995	BARKER 90-NP-057	
INTEGRATED APPLIED PHYSICS INC					
HIGH-POWER CO-AXIAL RIPPLED WALL OMC	WAKO	FREDERICK	N 12 29/01/90 \$49,928	BARKER 90-NP-058	
FM TECHNOLOGIES, INC					
HIGH-POWER TRANSVERSE-MODULATION MICROWAVE GENERATOR WITH AXIAL- FIELD CONFINEMENT	WAKO	FREDERICK	N 12 29/01/90 \$49,883	BARKER 90-NP-059	
FM TECHNOLOGIES, INC					
INVESTIGATION OF A RELATIVISTIC KLYSTRON SCHEME	ZIEHOP	K.	N 24 08/02/90 \$160,435	BARKER 90-NP-062	
TEXAS TECH UNIVERSITY					
RESEARCH ON HIGH POWER "SECONDS" DISCHARGES	DESTLER	WILLIAM	N 36 12/02/90 \$800,362	BARKER 90-NP-064	
UNIV OF MARYLAND					
SUPPORT OF THE FIFTY-THIRD ANNUAL JOINT ELECTRONICS CONFERENCE	VERDEYEN	J.	N 12 12/02/90 \$9,000	BARKER 90-NP-065	
UNIV OF ILLINOIS					

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PLASMA OSCILLATIONS IN A WIDE, TUMBLE LAYER OF ELECTRON GAS UNIV OF CALIFORNIA	GWINN ELIZABETH	N 36 16/02/90 \$378,346	BARKER 90-NP-068	\$115,000 01/06/90 \$115,000
MICROWAVE PROPAGATION AND ATTENUATION IN MAGNETOPLASMAS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LEE MIN-CHANG	N 18 28/02/90 \$115,000	A BARKER 90-NP-070	\$115,000 01/06/90 \$115,000
COHERENT RADIATION PROCESSES IN STRONG FIELDS NAVAL RESEARCH LAB RATORY	JACOBS VERNE	N 12 02/03/90 \$10,000	BARKER 90-NP-071	
EFFICIENCY & POWER HANDLING OPTIMIZATION IN DIELECTRIC & GRATING MILLIMETER WAVE CERAMIC FOLD ELECTRON MASERS UNIV OF WISCONSIN	SCHARER JOHN	N 36 19/03/90 \$369,970	BARKER 90-NP-073	
SCATTERING ABSORPTION & GENERATION OF MICROWAVES IN TIME VARYING & STRUCTURED PLASMAS POLYTECHNIC UNIVERSITY	KUD SPENCER	N 36 26/03/90 \$451,943	BARKER 90-NP-076	
EXPERIMENTAL AND THEORETICAL INVESTIGATION OF RF ABSORPTION AND REFLECTION FROM PREFORMED PLASMAS UNIV OF MARYLAND	DESTLER WILLIAM	R 12 27/03/90 \$121,000	BARKER 90-NP-077	
MOLECULAR EXCITED STATES IN ELECTRIC FIELDS SRI INTERNATIONAL	KACHRU RAVINDER	N 36 08/01/90 \$394,185	KELLEY 90-NP-040	
THE 1990 GORDON RESEARCH CONFERENCE ON ELECTRON SPECTROSCOPY GORDON RESEARCH CONFERENCES INC	CRUICKSHANK ALEXANDER	N 06 23/01/90 \$10,000	KELLEY 90-NP-053	
EXCITATION OF NUCLEI BY ANTIPROTON ANNIHILATION AT REST PENNSYLVANIA STATE UNIVERSITY	SMITH GERALD	R 12 29/01/90 \$35,465	A KELLEY 90-NP-054	\$35,465 01/05/90 \$35,465

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TRANSITION STATE SPECTROSCOPY AND DYNAMICS OF HALF-COLLISION ON REACTIVE SCATTERING AEROSPACE CORPORATION	SYAGE	N 36 16/02/90 \$390,785	KELLEY 90-NP-067	95,000 01/07/90 95,000
WORKSHOP ON COUPLED-CLUSTER THEORY AT THE INTERFACE OF ATOMIC PHYSICS AND QUANTUM CHEMISTRY UNIV OF FLORIDA	BARTLETT	N 06 19/03/90 \$5,000	A KELLEY 90-NP-072	95,000 01/07/90 95,000
TERMOLECULAR ASSOCIATION AND LASER-ASSISTED ELECTRON-EXCITED ATOM COLLISIONS GEORGIA TECH RESEARCH CORPORATION	FLANNERY	R 12 20/03/90 \$118,883	A KELLEY 90-NP-074	\$118,883 01/07/90 \$118,883
RESONANCE SCATTERING PHENOMENA IN ATOMIC PHYSICS LOUISIANA STATE UNIVERSITY	HO	N 36 20/03/90 \$151,782	KELLEY 90-NP-075	
PHOTON INDUCED PENNING IONIZATION UNIV OF CENTRAL FLORIDA	LITTLEWOOD	N 36 27/03/90 \$350,768	KELLEY 90-NP-078	
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION EASTERN SPACE & MISSILE CENTER	KENNEDY	N 08 06/02/90 \$2,675,000	A LUPO 90-NP-060	\$1,699,403 01/02/90 \$2,675,000
GEODETIC ACTIVITIES NASA - NATL AERONAUTICAL AND SPACE ADMIN	BALTUCK	N 08 19/01/90 \$20,000	A PERRIZO 90-NP-042	\$20,000 01/02/90 \$20,000
MULTICHANNEL SPECTRAL ANALYSIS OF SUNSPOTS, AURORAL SIGHTINGS AND AIR TEMPERATURES OREXEL UNIVERSITY	KESLER	N 18 09/02/90 \$106,560	RADOOSKI 90-NP-043	
PROPOSAL FOR A WORKSHOP ON PHOTO-ELECTRONIC EDUCATION UNIV OF COLORADO	CATHEY	N 12 23/01/90 \$10,000	A SCHLOSSER 90-NP-043	\$10,000 01/03/90 \$10,000

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TEMPORAL, SPATIAL, HORIZONTAL AND STATISTICAL EFFECTS IN PHOTOREFRACTIVE PHASE CONJUGATION UNIV OF WISCONSIN	SALEM	N 36 07/02/90 \$428,220	D SCHLOSSBER 90-NP-061	
UPTEL - A GAMMA RAY WEAPON/DETERMINATOR FOR TACTICAL AND STRATEGIC OFFENSE SYSTEM PLANNING CORPORATION	LACATSKI	N 12 12/02/90 \$236,837	SCHLOSSBER 90-NP-066	
(S912) LASER MICROCHEMICAL PROCESSING INSTRUMENT EPLICH ASSOCIATES	SHRLICH	N 6 22/02/90 \$58,031	A SCHLOSSBER 90-NP-069	\$50,000 01/07/90 \$50,000