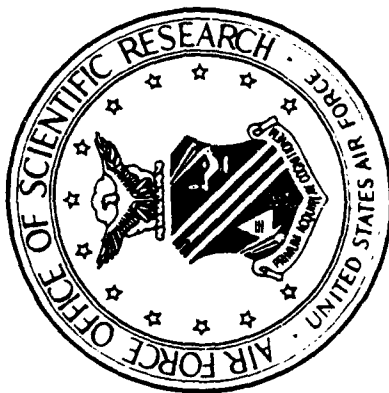


AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR FORCE SYSTEMS COMMAND

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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

AD-A214 438



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JULY - SEPTEMBER 1989

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RESEARCH PROPOSAL QUARTERLY STATUS REPORT

OCTOBER 1989



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BOLLING AFB, DC 20332-6448
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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 The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report.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 is 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.

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

CC/CD - OFFICE OF THE DIRECTOR

Commander Col Alan J. Driscoll 5017
 Technical Director

NA - DIRECTORATE OF AEROSPACE SCIENCES

	EXT	NL - DIRECTORATE OF LIFE SCIENCES	EXT
Director Jr Michael Salkind	4987	Acting Director Dr William O. Berry	4278
Prog Mgr Dr Mitat Birkan	4938	Expert Consultant Dr John Jonides	5021
Prog Mgr Dr Leonidas Sakel	4935	Prog Mgr Dr Alfred R. Fregly	5021
Prog Mgr Dr Spencer Wu	6962	Prog Mgr Maj T. Jan Cerveny	5021
Prog Mgr Dr Julian Tishkoff	0465	Prog Mgr John F. Tangney	5021
Prog Mgr Dr James McMichael	4936		
Prog Mgr Maj Steven Boyce	6963		
Prog Mgr Lt Col George Haritos	0463		
Prog Mgr Cap Henry Helin	0471		

NC - DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

Director Dr. Donald Ball	4960
Prog Mgr Dr. John Wilkes	4960
Prog Mgr Lt Col Larry W Burggraf	4960
Prog Mgr Lt Col Larry P. Davis	4963
Prog Mgr Dr Donald Ulrich	4963
Prog Mgr Dr Anthony Matuszko	4963
Prog Mgr Dr Francis Wodarczyk	4963

NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

Director Dr Horst R. Wittmann	4984
Dep Director Dr Alan Rosenstein	4933
Prog Mgr Dr Cole Littor	4931
Prog Mgr Lt Col Robert W. Carter, Jr.	4931
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Prog Mgr Dr Alan Craig	4931
Prog Mgr Dr Harold Weinstock	4933
Prog Mgr Dr Liselotte Schioler	4933

NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

Director Dr Charles J. Holland	5025
Prog Mgr Dr Neal Glassman	5026
Prog Mgr Dr Eytan Barouch	4940
Prog Mgr Dr Abraham Waksman	5028
Prog Mgr Dr Arje Nachman	4939

NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE

Director Col Jerry J. Perrizo	4904
Prog Mgr Dr Ralph Kelley	4908
Prog Mgr Dr Robert Barker	5011
Prog Mgr Dr Howard Schlossberg	4906
Prog Mgr Dr. Henry R. Radoski	4906

PART I

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

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPCAL	STATUS	PM NAME
	LAST NAME					
-IF FORCE WEAPONS LAB	BERNETTE	HOWARD	W	89-NP-246	A	KELLY
	BURNETTE	HOWARD		89-NM-690	A	NACHMAN
	KURTH	ALLEN	E	89-NE-410	A	SCHICLER
	REDDY	9.	R	89-NC-409	A	ULRICH
	PLUQUIN	SCOTT	F	89-NA-413	A	BOYCE
	APPLIED RESEARCH ASSOCIATES INC	DEMETRIS	A	89-NA-424		HARITOS
	ARIZONA STATE UNIVERSITY	G	P	89-NA-353		SAKELL
		GREGORY	B	89-NE-388		SCHICLER
		HELEN	L	89-NA-372		MCMICHAEL
		SARIC	S	89-NA-429	A	MCMICHAEL
ARMED FORCES INSTITUTE OF PATHOLOGY	TSAKALIS	KONSTANTINOS	S	89-NM-696	A	CROWLEY
	HARRISON	CHARLES	M	89-NL-303	A	CEVENEY
	THROKPOKOTIN	HODGE		89-XO-028	A	CAVENDOR
	ARMY RESEARCH OFFICE	PETER	J	89-NC-316		ULRICH
	BATTLE COLLEMBUS LABS	MARK		89-NC-368		ULRICH
	BATTLE PACIFIC NORTHWEST LABORATORIES	JOSHUA		89-NE-324	A	GILES
	CELLCORE			89-NE-408	A	CRAIG
		JOSEPH		89-NL-285		FREGLY
		GEORGE		89-NL-283		BERRY
		THOMAS		89-NC-342		ULRICH
BEN-GURION UNIVERSITY OF THE NEGEV	CRCSSBERG	STEVEN		89-NM-699	A	WAKSMAN
	LEMPICKI	ALEXANDER		89-NE-345		CRAIG
	BOLGHTON	ROBERT	I	89-NE-363		ROSENSTEIN
	FCYMAN	BRUCE	M	89-NC-420		ULRICH
	CERBONE	RALPH	J	89-XO-032	A	CAVENDOR
	ADAMS	MARILYN	J	89-NL-284		FREGLY
	LAWANCY	N. M.		89-NP-211		SCHLOSSBER
	MORSE	T. F.		89-NP-213	A	SCHLOSSBER
	LARIMORE	WALLACE	E	89-NM-665		NACHMAN
	SOCOMAN	RODNEY	M	89-NE-311	A	GILES
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	GRLBBS	ROBERT	H	89-NC-365		ULRICH
	MCGILL	T	C	89-NE-348		LITTON
	YARIV	AMNON		89-NE-336		GILES
	STRONGE	W	J	89-NA-349		HARITOS
	CURTIN	MORTON	E	89-NM-660		NACHMAN
	HAMMACK	WILLIAM	S	89-NC-308		WILKES
	PEKE	DONALD	L	89-NE-378		SCHIOLER
	LAKOO	JEROME	B	89-NC-372		ULRICH
	MCET	ABDELSAMIE		89-NC-412		ULRICH
	BERAN	MARK	J	89-NA-609		HARITOS
CATHOLIC UNIVERSITY OF AMERICA	USERALL	H		89-NC-347		STOBIE
	ALFANO	ROBERT	R	89-NC-608		ULRICH
	DELALE	FERIOUN	B	89-NA-422		HARITOS
	CUMBERBATCH	ELLIS		89-NM-670		NACHMAN
	MARIAM	YITSAREK	H	89-NC-335		ULRICH
	ARAJ	SIGURCS		89-NE-335	C	WEINSTOCK
	CAMPBELL	GREGORY	A	89-NC-399		ULRICH
	LEE	JUNG	S	89-NA-398		HARITOS

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CLEMSON UNIVERSITY	YULGARTIS	STEVEN	WARREN	W	89-NE-390		SCHICKLER
	ACRMS	WARREN	MICHAEL	P	89-NM-668		GLASSMAN
	ELLIISON	MICHAEL	MICA	S	89-AC-384		ULRICH
	GRIJICIC	MICA	AMOD	A	89-NE-369		ROSENSTEIN
	OGALE	DENNIS	DONALD	W	89-NC-394		ULRICH
	REIDY	DONALD	R.	W	89-NE-401		SCHIOLER
	RAUFORD	DANIEL	J	W	89-NA-404		HARITOS
	ZUCHI	DANIEL	J	P	89-NE-338	D	WEINSTOCK
	DOHER	J	J.	A	89-NL-295		FREGLY
	GRADNER	J.	J.	M	89-NL-290		BERRY
COLORADO SCHCOL OF MINES	KR-SILS	RISHI	VICTOR	A	89-NE-312		WITT
	PAPIA	VICTOR	IAN	M	89-NP-216		BARKER
	RAJ	IAN	RICHARD	A	89-NE-409	A	WEINSTOCK
	IAYNELLO	SIDNEY	DIRAN	J	89-NE-313	A	ROSENSTEIN
	STYMS	IAN	N.	A	89-NE-316	A	WEINSTOCK
	BAKER	RICHARD	A	A	89-NL-323	A	CERVENY
	GEWIN (LANL)	DIRAN	A	J	89-NE-367		ROSENSTEIN
	APFLIAN	N.	A	S	89-NP-214	A	KELLEY
	DIYARDO	A	ALBERT	S	89-NE-397		ROSENSTEIN
	WATIS	TIMOTHY	RASKO	L	89-AC-407		ULRICH
DUKE UNIVERSITY	JACOBS	RASKO	RICHARD	A	89-NA-367		HARITOS
	OJROVIC	JEAN-PIERRE	KWANG	S	89-NA-416		HARITOS
	PALMER	DAVIX	HERMAN	L	89-NA-421		HARITOS
	FAURIE	TERRY	ROBERT	K	89-AC-402		HARITOS
	MCPRIVA	STEPHEN	JAMES	G	89-NC-396		ULRICH
	FINKBEINER	STEPHEN	CHARLES	A	89-NE-351	A	LITIGN
	LLIB	JAMES	AHMED	K	89-XO-040	A	CAVENDER
	HENEYCHUCK	CHARLES	ROBERT	V	89-AM-688		NACHMAN
	NASH	AMMED	ROBERT	L	39-AC-381	M	MATUSZKO
	FALK	ROBERT	RICHARD	K	89-NC-354	A	MATUSZKO
GEORGE MASON UNIVERSITY	GARRIS	RICHARD	KURT	G	89-AC-418		ULRICH
	NCCR	KURT	RCNALC	F	89-NM-680		GLASSMAN
	DE LEVIE	RCBERT	TIMOTHY	E	89-NA-661	A	HELIN
	DE LEVIE	RICHARD	OCUGLAS	H	89-NA-427		AMDS
	CATRABONE	KURT	PETER	M	89-NA-362		ROSENSTEIN
	WESEKFELE	RCBERT	JCHN	F	89-NE-337		ROSENSTEIN
	FCX	RICHARD	MCSHE	Y	89-NL-305		FREGLY
	CALPO	KURT	MAREK	M	89-NL-305	D	WEINSTOCK
	WALEN	RCBERT	GCLAM	M	89-NE-350		WEINSTOCK
	BAINUM	RICHARD	RCBERT	E	89-NM-692		NACHMAN
GEORGETOWN UNIVERSITY	WALEN	PETER	JCHN	F	89-AP-245		KELLEY
	RABILT	JCHN	MCSHE	Y	89-NL-308		FREGLY
	VARCI	MCSHE	MAREK	M	89-NA-349		HARITOS
	COLLAR	MAREK	GCLAM	M	99-AC-417		ULRICH
	NEWAZ	GCLAM			99-NM-678		WAKSMAN
	GEORGIA TECH RESEARCH CORPORATION	FCX	RCNALC	F	89-NE-373		ROSENSTEIN
	HARVARD UNIVERSITY	CALPO	TIMOTHY	E	89-NA-405		HARITOS
	PASKIN LABORATORIES, INC.	WALEN	OCUGLAS	H			
	HOWARD UNIVERSITY	BAINUM	PETER	M			
	IBM ALMADEN RESEARCH CENTER	RABILT	JCHN	F			
ILLINOIS INSTITUTE OF TECHNOLOGY	VARCI	MCSHE	Y				

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

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
INDIANA UNIVERSITY-PURDUE UNIV AT INCLPIS	SANIE	JAFAR	A	89-NE-372		SCHIOLER
	SCIAMPARELLA	CESAR		89-NA-397		HARITOS
	AFCLABI	DARE		89-NA-377		AMOS
	RASMUSSEN	JEFFREY	L	89-NM-658		BAROUCH
	CGLTTS	TIMOTHY	J	89-NE-340		CRAIG
	WERTHEIM	A	H	89-NL-292		TANGNEY
	SZL	MARODL	S	89-NE-332	A	GILES
	CHUMBLEY	LEONARD	T	89-NE-389		ROSENSTEIN
	DAVID	H.		89-NM-666		BAROUCH
	DAYAL	VINAY		89-NC-355		ULRICH
MARTIN	STEVE	W	89-NC-415		ULRICH	
COMBIE	JOAN		89-NL-321		CERVENY	
SPECTOR	JONATHAN	L	89-XO-043	A	CAVENDER	
SPECTOR	JONATHAN	L	89-XO-026	A	CAVENDER	
CHUTJIAN	ARA		89-NP-222		KELLEY	
HARDER	SETH	R	89-NC-353		ULRICH	
SRIVASTAVA	SANTOSH	K	89-NP-227	A	KELLEY	
THAKOOR	A.P.		89-NE-320	A	GILES	
BARGERON	C.B.		89-NE-417		SCHIOLER	
EGETH	HOWARD	E	89-NL-289		FREGLY	
SCRENSSEN	CHRISTOPHER	M	89-NC-410		ULRICH	
KRALL	NICHOLAS	A	89-NP-231		BARKER	
STEFAN	VLADISLAV		89-NP-244		BARKER	
ATTWOOD	DAVID		89-NP-240	A	SCHLOSSBER	
LEUNG	KA-NGO		89-NP-225	A	KELLEY	
HISKES	JOHN	R	89-NP-226	A	KELLEY	
			89-NP-239	A	KELLEY	
LEHIGH UNIVERSITY	APKADY		89-NA-407		HARITOS	
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	CHERYL	J	89-NL-316		FREGLY	
	F		89-NC-338		DAVIS	
	HOWARD		89-NE-321		GILES	
	DONAL	G	89-NL-298		TANGNEY	
	F.		89-NC-346		DAVIS	
LOS ALAMOS TECHNICAL ASSOCIATES INC	GREGORY	L	89-NE-366	W	SCHIOLER	
LOUISIANA STATE UNIVERSITY	BUSH		89-NM-715		WAKSMAN	
	DOYLE	A	89-NE-400		SCHIOLER	
	G	Z	89-NA-368		HARITOS	
MARQUETTE UNIVERSITY	STEPHEN	J	89-NL-300		TANGNEY	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MILDRED	S	89-NE-344	A	WEINSTOCK	
	GENE	F	89-XO-033	A	CAVENDER	
	ALAN	H	89-NA-359	A	HELIN	
	ROBERT	M	89-NM-693	A	GLASSMAN	
	DANIEL	E	89-NA-425	A	BIRKAN	
	JOHN	D	89-NE-331		LITTON	
	ROBERT	W	89-NP-233		PERRIZO	
	MIN-CHANG		89-NP-242		BARKER	
	VICTOR	C	89-NA-373		WU	
	JAMES	E	89-NA-356	A	HELIN	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM	JAME
MATERIALS RESEARCH SOCIETY	CLARK	JAMES	B	89-NM-703	A		GLASSMAN
		PAUL	M	89-NE-352	A		WEINSTOCK
MICHIGAN STATE UNIVERSITY	KHALIL	CARL	V	89-XO-035	A		CAVENDER
		JEREMY	M	89-NE-349			LITTON
MICHIGAN STATE UNIVERSITY	KHALIL	RICHARD	J	89-NL-304			FREGLY
		JOHN	B	89-NL-324			BERRY
MICHIGAN STATE UNIVERSITY	KHALIL	DAVID	E	89-NE-346			LITTON
		MERCOURI	G	89-NE-347			LITTON
MICHIGAN STATE UNIVERSITY	KHALIL	HASSAN	K	89-NC-421			ULRICH
		JOHN	F	89-NC-387			ULRICH
MICHIGAN STATE UNIVERSITY	KHALIL	R	F	89-NM-671	D		ULWLEY
		JOSEPH	M	89-NA-415			HARTOS
MICHIGAN STATE UNIVERSITY	KHALIL	STEVE	A	89-NC-344	A		BURGRAF
		G. M. W.	S	89-NP-224	A		KELL
MICHIGAN STATE UNIVERSITY	KHALIL	ROBERT	S	89-NA-343	A		SAKELL
		VERNON	A	89-NC-321			ULRICH
MICHIGAN STATE UNIVERSITY	KHALIL	HAROLD	R	89-NP-237			PERRIZO
		JACKSON	T	89-NP-239			PERRIZO
MICHIGAN STATE UNIVERSITY	KHALIL	PAUL	W	89-XO-042	A		ROBISON
		JOHN	S	89-NL-320			FREGLY
MICHIGAN STATE UNIVERSITY	KHALIL	THOMAS	B	89-NA-357	A		MCMICHAEL
		M	S	89-NM-674	A		GLASSMAN
MICHIGAN STATE UNIVERSITY	KHALIL	K.	L	89-NE-358	A		SCHICLER
		HAROLD	S	89-NE-358			KELLEY
MICHIGAN STATE UNIVERSITY	KHALIL	THOMAS	B	89-NP-212			KELLEY
		M	S	89-NA-426	A		MELIN
MICHIGAN STATE UNIVERSITY	KHALIL	K.	L	89-NE-354	D		LITTON
		HAROLD	S	89-NE-333			GILES
MICHIGAN STATE UNIVERSITY	KHALIL	HAYM	L	89-NC-406			ULRICH
		MING	C	89-NA-365			AMOS
MICHIGAN STATE UNIVERSITY	KHALIL	DURGAMADHAB	MIS	89-NE-407			ROSENSTEIN
		EMANUEL	R	89-NL-301			BERRY
MICHIGAN STATE UNIVERSITY	KHALIL	JAMES	F	89-NE-398			SCHICLER
		ANNA	E	89-NE-382			SCHICLER
MICHIGAN STATE UNIVERSITY	KHALIL	ROBERT	R	89-NE-361			WITT
		ROBERT	V	89-NM-686	A		NACHMAN
MICHIGAN STATE UNIVERSITY	KHALIL	DAVID	J	89-NA-390			SAKELL
		M. RESZ	B	89-NC-405			ULRICH
MICHIGAN STATE UNIVERSITY	KHALIL	ARKADY	J	89-XO-036	A		CAVENDER
		PETER	R	89-NA-381			CROWLEY
MICHIGAN STATE UNIVERSITY	KHALIL	PHILIP	R	89-NC-403			ULRICH
		FRANK	J	89-NA-389			HARITOS
MICHIGAN STATE UNIVERSITY	KHALIL	ANTHONY	J	89-NM-683			NACHMAN
		MELVILLE	B	89-NE-397			ROSENSTEIN
MICHIGAN STATE UNIVERSITY	KHALIL	RONALD	J	89-NE-309			GILES
		FREDERICK	J	89-NA-388			HARITOS
MICHIGAN STATE UNIVERSITY	KHALIL	CHIHU-TSU	W	89-NC-367			ULRICH
		CHARLES	W	89-NC-351			ULRICH

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPCAL	STATUS	PM NAME	
NORTHEASTERN UNIVERSITY	BAZANT	ZCENEK	P	89-NA-420		HAPITOS	
	BELYTSCHKO	PROFESSOR	T	89-NA-354	D	AMOS	
	HADDAD	ABRAHAM	H	89-NM-712		CROWLEY	
	MARKS	TCBIN	J	89-NC-319	A	DAVIS	
	OFFICE OF NAVAL RESEARCH	LAU	CLIFF		89-NE-327	A	GILES
		O'HARE	JCMN	J	89-NL-315		TANGNEY
	OKLAHOMA STATE UNIVERSITY	CZEKAJ	CORINNA	L	89-NC-397		ULPICH
	OREGON GRADUATE CENTER FOR STUDY & RESCH	LEEN	TCDD		89-NE-334		GILES
	OXFORD UNIVERSITY	GLAZER	MIKE		89-NC-323		ULRICH
	PACIFIC APPLIED RESEARCH	WARREN, JR	WALTER	R	89-NC-329	A	WODARCZYK
PENNSYLVANIA STATE UNIVERSITY	AGRAWAL	DINESH	K	89-NC-331		ULPICH	
PORTLAND STATE UNIVERSITY	BARLOW	JESSE		89-NM-702		HOLLAND	
	BIANCONI	PATRICIA	A	89-NC-309		MATUSZK	
	HAPN	H	T	89-NA-345		HARITOS	
	POTHEN	ALEX		89-NM-713		NACHMAN	
	SANTAVICCA	DOMENIC	A	89-NA-355	A	TISHKOFF	
	SANTORO	ROBERT	J	89-NA-383	A	TISHKOFF	
	LEUNG	PUI-TAK		89-NE-353		LITTON	
	RATITZ	STEVEN	A	89-NA-393	A	MCMICHAEL	
	ORSZAG	HERSCHEL		89-NC-325		DAVIS	
	ATALLAH	MIKHAIL		89-NM-682	A	GLASSMAN	
PRINCETON UNIVERSITY	MUCKAM	OSITA		89-NA-378		AMOS	
	PRACCTCR	ROBERT		89-NL-306		FREGLY	
	RICE	JCMN	R	89-NM-709		HOLLAND	
	PAYDAP	NASSER		89-NA-370	D	AMOS	
	VITERBI	ANDREW	J	89-NM-698	A	NACHMAN	
	COLE	JULIAN	D	89-NM-657	A	NACHMAN	
	KRAUSE	SONJA		89-NC-352	D	DAVIS	
	MCCONALD	JOHN	F	89-NC-339		DAVIS	
	MITCHELL	JCMN	E	89-NM-708		GLASSMAN	
	WOZNY	MICHAEL		89-NA-382		CROWLEY	
RICE UNIVERSITY	ARMENIADES	CONSTANTINE	D	89-NC-379		ULRICH	
	MARGRAVE	JOHN	L	89-NE-391		ROSENSTEIN	
	SALERGREY	RCLANC		89-AC-371		ULRICH	
	MEYES	D. M.	L	89-NC-320		DAVIS	
	LEBOWITZ	JOEL		89-NP-210	A	BARKER	
	MURDOCCA	MILES		89-NE-322		GILES	
	PAE	K	D	89-NE-366		ULRICH	
	ECKSTROM	DNALC	J	89-NP-241		BARKER	
	HUESTIS	DAVID	L	89-NA-387	A	TISHKOFF	
	MACDONALD	D	D	89-AC-317		WILKE	
ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	NARAYAN	SUBHASH	C	89-NC-416		MATUSZK	
	POLMO	BRUCE	G	89-NE-343		ROSENSTEIN	
	SLANGER	TOM	G	89-NC-311		WODARCZYK	
	BLUCK	I.	E	89-NM-689	A	GLASSMAN	
	HU	C.L.J.		89-NE-414		CRAIG	
	MIFESHAMS	A. REZA		89-NE-385		ROSENSTEIN	
	BRADSHAW	PETER		89-NA-360	A	SAKELL	

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

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME	
	LAST NAME						
STATE UNIVERSITY OF NEW YORK	ARYSON	ARTHUR		89-NA-376		AMOS	
	CHAPMAN	DEAN	R	89-NA-391		SAKELL	
	FEJER	MARTIN	M	89-NP-218		SCHLOSSBER	
	HARRIS	STEPHEN	E	89-NP-228		SCHLOSSBER	
	KAILATH	THOMAS		89-NM-679	A	NACHMAN	
	RGBERTS	LEONARD		89-NA-386		HELIN	
	RCSS	JCHN		89-NC-358	A	CAVIS	
	L. CHUNG	DEBORAH	D	89-NE-406		SCHIOLER	
	ASPGRIZ	NASSER		89-NA-369	D	TISHKOFF	
	CHAKI	TARUN	K	89-NE-364		ROSENSTEIN	
	CHEN	Y	M	89-NM-649		NACHMAN	
	CHIANG	FL-PEN		89-NA-401		HARITOS	
	GEORGE	THOMAS	F	89-NC-332		DAVIS	
	HARRIS	STEWART	M	89-NE-362		ROSENSTEIN	
	KUSHNER	ALAN	S	89-NA-419		HARITOS	
STATE UNIVERSITY OF NEW YORK - RSCH FCN	PITMAN	E. BRUCE		89-NM-652	A	NACHMAN	
	PRASAC	PARAS	N	89-NC-327		DAVIS	
	DAVIS	ELIZABETH	T	89-NL-310		TANGNEY	
	WHITTAKER	EDWARD	A	89-NE-404		SCHIOLER	
	OCKSEN	PETER	A	89-NE-370		ROSENSTEIN	
	LEVY	ALAN	J	89-NA-419		HARITOS	
	LIL	HAD-WEN		89-NA-408		HARITOS	
	MANDEL	JAMES	A	89-NA-400		HARITOS	
	SPENCER	JAMES	T	89-NE-384		SCHICLER	
	WEINER	DONALD	D	89-NE-392		ROSENSTEIN	
	KUNISCH	KARL		89-XD-030	A	CAVENDER	
	LEFKOVITZ	DAVID		89-XD-046	A	CAVENDER	
	HCY	DARRELL	E.	89-NM-710		CROWLEY	
	MARONGIU	M	P	89-NM-704		HOLLAND	
	TEXAS A AND M UNIVERSITY	JAYASUPIYA	SUHADA		89-NE-374		ROSENSTEIN
JUNKINS		JOHN		89-NA-394		HELIN	
MARTIN		CHARLES	J	89-NA-395		HELIN	
ZERDA		TADEUSZ		89-NA-352		AMOS	
ZIEHER		KLAUS		89-NA-363		AMOS	
NICOLAIDES		C. A.		89-NA-347		AMOS	
ADELSON		BETH	R	89-NC-357		WILKES	
RYCER, JR.		DANIEL		89-NC-363	M	WILKES	
SUING		NAKHO		89-NC-369		ULRICH	
AGLAN		HERSHMAT	F	89-NP-219		PARKER	
PACIOREK		K		89-NC-362		DAVIS	
BAIRD		JAMES		89-NM-685	D	WAKSMAN	
BIGGS		ALBERT		89-NE-399	C	SCHICLER	
GRAY		GARY		89-NC-375		ULRICH	
TEXAS CHRISTIAN UNIVERSITY		ZERDA	TADEUSZ		89-NC-388		ULRICH
	ZIEHER	KLAUS	W	89-NC-326		MATUSZKO	
	NICOLAIDES	C. A.	W	89-NC-376		ULRICH	
	ADELSON	BETH		89-XD-031	A	CAVENDER	
	RYCER, JR.	DANIEL		89-NC-401		ULRICH	
	SUING	NAKHO					
	AGLAN	HERSHMAT					
	PACIOREK	K					
	BAIRD	JAMES	L				
	BIGGS	ALBERT	K				
	GRAY	GARY	W				
	TEXAS TECH UNIVERSITY	ZERDA	TADEUSZ				
		ZIEHER	KLAUS				
		NICOLAIDES	C. A.				
		ADELSON	BETH				
RYCER, JR.		DANIEL					
SUING		NAKHO					
AGLAN		HERSHMAT					
PACIOREK		K					
BAIRD		JAMES					
BIGGS		ALBERT					
GRAY		GARY					
THEORETICAL & PHYSICAL CHEMISTRY INST		ZERDA	TADEUSZ				
		ZIEHER	KLAUS				
		NICOLAIDES	C. A.				
		ADELSON	BETH				
	RYCER, JR.	DANIEL					
	SUING	NAKHO					
	AGLAN	HERSHMAT					
	PACIOREK	K					
	BAIRD	JAMES					
	BIGGS	ALBERT					
	GRAY	GARY					
	TUSKEGEE INSTITUTE	ZERDA	TADEUSZ				
		ZIEHER	KLAUS				
		NICOLAIDES	C. A.				
		ADELSON	BETH				
RYCER, JR.		DANIEL					
SUING		NAKHO					
AGLAN		HERSHMAT					
PACIOREK		K					
BAIRD		JAMES					
BIGGS		ALBERT					
GRAY		GARY					
ULTRASYSTEMS INC		ZERDA	TADEUSZ				
		ZIEHER	KLAUS				
		NICOLAIDES	C. A.				
		ADELSON	BETH				
	RYCER, JR.	DANIEL					
	SUING	NAKHO					
	AGLAN	HERSHMAT					
	PACIOREK	K					
	BAIRD	JAMES					
	BIGGS	ALBERT					
	GRAY	GARY					
	UNIV OF ALABAMA	ZERDA	TADEUSZ				
		ZIEHER	KLAUS				
		NICOLAIDES	C. A.				
		ADELSON	BETH				
RYCER, JR.		DANIEL					
SUING		NAKHO					
AGLAN		HERSHMAT					
PACIOREK		K					
BAIRD		JAMES					
BIGGS		ALBERT					
GRAY		GARY					

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF ALASKA UNIV OF ARIZONA	MC MANUS		SAMUEL	P	89-NC-400		ULRICH
	TEMPOROWSKI		PHILIP		89-NL-319		TAYGNEY
	GIMBEL		JCHN	G	89-NM-676	A	GLASSMAN
	FALCO		CHARLES	M	89-NP-234	A	SCHLOSSBER
	GIPSON		URSULA	J	89-XO-034	A	CAVENDER
	KICUSIS		PANOS	D	89-NA-374	A	BOYCE
	NEWELL		ALAN	C	89-NM-687		NACHMAN
	SHAKEL		MOSHE		89-NM-697		SARDUCH
	SIPES		GLENN		89-NL-322		CERVENY
	WYGANSKI		ISRAEL	J	89-NA-354	A	MCMICHAEL
	ULRICH		RICHARD	K	89-NE-368		SCHIDLER
	UNIV OF ARKANSAS UNIV OF ARKANSAS/PINE BLUFF UNIV OF CALIFORNIA	CHCWHURY		ASLAM	H	89-NC-391	
CRUNKER			NANCY	U	89-XO-037	A	CAVENDER
SCHMIT			LUCIEN	A	89-NA-379	D	AMOS
FEHER			FRANK	J	89-NC-334		MATUSZKO
FOOTE			STEPHEN	L	89-NL-317		BERRY
GEOFFRION			ARTHUR	M	89-NM-673		GLASSMAN
HEEGER			ALAN	J	89-NC-322		ULRICH
HESS			RONALD	A	89-NM-584	D	CROWLEY
HU			CHENMING		89-NE-330		WITT
KCHLER			BRYANE	E	89-NC-398		ULRICH
LBERGE			DAVID		89-NL-299		FREGLY
MACKENZIE			J	D	89-NC-373	W	ULRICH
UNIV OF CALIFORNIA, SAN DIEGO	MCRE		C. BRADLEY		89-NC-340	A	WODARCZYK
	MORSE		EDWARC	C	89-NP-230		KELLEY
	NEUMARK		DANIEL	M	89-NC-333		DAVIS
	RITCHIE		ROBERT	O	89-NE-412		ROSENSTEIN
	SCOTT		GARY	W	89-NC-414		ULRICH
	SIRIGNANO		WILLIAM	A	89-NA-350	A	TISHKOFF
	SMITH		PAUL		89-NC-349		ULRICH
	TREISMAN		ANNE	M	89-NL-297		FREGLY
	ZABRA		FRANCISCO		89-NE-383		ROSENSTEIN
	GUEST		CLARK	C	89-NE-342		CRAIG
	NOVIKOV		EVGENY		89-NM-675		NACHMAN
	HEINONEN		OLLE	G	89-NC-390		ULRICH
UNIV OF CENTRAL FLORIDA UNIV OF CHICAGO UNIV OF CINCINNATI	DUPONT		TODD	F	89-NM-653		NACHMAN
	GHA		KIRTI	N	89-NA-384		HELIN
	POLLACK		STEVEN	K	89-NC-393	A	ULRICH
	RCE		R	J	89-NC-392		ULRICH
	SEKHAH		JAI	A	89-NE-371		ROSENSTEIN
	BARNES		FRANK	S	89-NE-357	D	WEINSTOCK
	FACHLICH		RCD		89-NC-328		STORIE
	HAMMOND		KENNETH	R	89-NL-309		FRUGLY
	LEONE		STEPHEN	R	89-NE-317		LITTON
	PANKOVE		JACQUES	I	89-NE-326		GILES
	WAGNER		KELVIN		89-NE-355		CP445
	GALLIGAN		JAMES	M	89-NE-402		SCHIDLER
UNIV OF CONNECTICUT	OTTER		FRED	A	89-NP-381		ROSENSTEIN

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF DAYTON	YANEY		PERRY	P	89-XD-050	A	CAVENDER
UNIV OF DENVER	CCOMBE		ROBERT	D	89-NC-326		WODARCZYK
	GILBERT		JULANNA	V	89-NC-337		WODARCZYK
	HENSHAW		THOMAS	L	89-XD-041	A	CAVENDER
	BARTLETT		RODNEY	J	89-NC-314		DAVIS
			YNGVE		89-NP-223	A	KELLEY
	OHEN		YNGVE		89-NC-312		DAVIS
	SEIBERLING		L	E	89-NC-359		BURGGRAF
UNIV OF GEORGIA	LEE		M. HOWARD		89-NE-315		LITTON
UNIV OF HOUSTON	C HSU		THOMAS	T	89-NA-385		WU
			KRISHNASHAMY		89-NA-406		HARITOS
	SU		W	P	89-NC-318		DAVIS
	ACRIAN		RONALD	J	89-NA-371		MCMICHAEL
	CARROLL		ROBERT		89-NM-667		NACHMAN
	DONCHIN		EMANUEL	W	89-NL-302	A	FREGLY
	LIU		JANE	E	89-NM-669		WAKSMAN
	VAN VALKENBURG		M.	A	89-NE-339		CRAIG
	W CHYER III		THOMAS	A	89-XD-029	A	CAVENDER
			DAVID	G	89-XC-047	A	CAVEPIDER
	RETHWISCH		DAVID	G	89-NE-393		ROSENSTEIN
UNIV OF IOWA	SHENOY		PRAKASH	P	89-NM-651		WAKSMAN
UNIV OF KANSAS	FICDY		MICHAEL	A	89-NC-399		ULRICH
UNIV OF LOWELL	UNERTL		WILLIAM	N	89-NC-380		ULPICH
UNIV OF MAINE	KANAL		LAVEEN	N	89-NE-318		GILES
UNIV OF MARYLAND	YANG		JACKSON C	S	89-NA-358		BOYCE
UNIV OF MARYLAND, BALTIMORE CAMPUS	CARTER		GARY	M	89-NC-374		ULRICH
UNIV OF MASSACHUSETTS	RAYNER		KEITH	A	89-NL-312	A	FREGLY
	RCSENGAUM		DAVID		89-NL-296		FREGLY
	JAIN		RAMESH		89-NM-716		WAKSMAN
	KCRNBUM		SYLVAN	M	89-NL-311	A	FREGLY
	MEERKCV		SEMYON	S	89-NM-695	D	CROWLEY
	BATES		FRANK		89-NC-356		ULRICH
UNIV OF MINNESOTA	HSIAD		C	C	89-NC-360	W	ULRICH
	LEE		E.	B	89-NA-380		HARITOS
	LOCGE		TIMOTHY	P	89-NM-717		CROWLEY
	SHRAGOWITZ		EUGENE		89-NC-378		ULRICH
	SCHLES		C. QUINTON		89-NM-672		GLASSMAN
	DEFACIO		BRIAN		89-NE-396		ROSENSTEIN
	EL-GIZAWY		AHMED SHERIF	Q	89-NM-714		NACHMAN
	JACOPS		MARC	N	89-NE-395		ROSENSTEIN
	RAMAMAN		MCHAMED	N	89-XC-049	A	CAVENDER
	SCHMITT		JOHN	L	89-NE-405		SCHIOLER
	NEGAMBAN		MEHRDAD		89-NC-385		ULRICH
UNIV OF NEBRASKA	HALLETT		JOHN		89-NA-399		HARITOS
UNIV OF NEVADA	HARRINGTON		THOMAS		89-NC-320		STOBIE
	BEI		THOMAS		89-NL-314		TANGVEY
UNIV OF NEW MEXICO					89-NC-402		ULRICH
					89-NC-419		ULRICH

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME	
UNIV OF NORTH CAROLINA	DIELS		JEAN-CLAUDE		89-NP-217		SCHLOSSER	
	GALVEZ		MIGUEL		89-NP-229		BARKER	
UNIV OF NOTRE DAME	JL		FREDERICK	D	89-NP-243		BARKER	
	ROSS		TIMOTHY	J	89-NA-344		WU	
	TRUMAN		C RANCALL		89-NA-414		HARITOS	
	WALTERS		EDWARD	A	89-NA-428		MCMICHAEL	
	WEISER		MARTIN	W	89-NC-335		DAVIS	
	MICHALEWICZ		ZBIGNIEW		89-NE-403		SCHIDLER	
					89-NM-705		WAKSMAN	
					89-NM-706		GLASSMAN	
					89-NM-681	A	GLASSMAN	
					89-NL-297		BERRY	
UNIV OF OKLAHOMA	WIGHTMAN		MARK	R	89-NE-376		SCHIDLER	
	MILLER		ALBERT	E	89-NE-386		SCHIDLER	
	KHAN		AKHTAR	S	89-NC-341		WOODARCZYK	
	DYKE		THOMAS	R	89-NC-411		ULRICH	
	MOSSBERG		THOMAS	W	89-NM-655		GLASSMAN	
	ANADALINGAM		G.		89-NM-664	A	BARDOUCH	
	KASSAM		SALEEM	A	89-NC-385		ULRICH	
	FALK		CHARLES	A	89-NM-656	A	NACHMAN	
	HALL		ALBERT	J	89-NC-413		ULRICH	
	PCST		JOSE	M	89-NE-379		ROSENSTEIN	
UNIV OF PUERTO RICO	ALEMAR		PRANAB	K	89-NA-423		HARITOS	
	MAZUMDAR		RAMDAS		89-NM-659		BARDOUCH	
	KUMARASAN		DAVID	G	89-NA-412		HARITOS	
	TAGGART		MARTIN	A	89-NM-694	C	CRIMLEY	
	GUEST		MARY	M	89-AL-291		TANGNEY	
	HAYME		ADRIAN	C	89-AP-221	A	BARKER	
	MELISSINOS		MICHAEL	J	89-NE-413		WEINSTOCK	
	WENGLER		JAMES	D	89-NA-410		HARITOS	
	LYACH		THOMAS		89-AL-307		FREGLY	
	SANOCKI		HSIEN	K	89-NA-392		SAKELL	
UNIV OF RHODE ISLAND	CHENG		ANUPAM		89-NE-329	A	LITTON	
	WACHUKAR		E. P.		89-NC-350		WOODARCZYK	
	MUNTZ		ALAN	H	89-AP-215		BARKER	
	MCCURDY		DAVID	D	89-NM-701		WAKSMAN	
	MUTCHLER		T.		89-NE-380		ROSENSTEIN	
	MCCAY		WEN	S	89-NA-417		HARITOS	
	CHAN		JCHN	P	89-NC-383		ULRICH	
	FERRARIS		SHIY	P	89-NA-411		HARITOS	
	JOSHI		RICHARD	J	89-NC-343	A	MATUSZKO	
	LAGOW		K	M	89-NA-375		HARITOS	
UNIV OF SOUTH CAROLINA	LIFECHTI		KEITH	H	89-NC-382		ULRICH	
	PANNELL		SHAILOMOPA	K	89-NE-375		ROSENSTEIN	
	VARMA		RICHARD	W	89-NP-232		BARKER	
	GROW		GERALD	B	89-NE-359		LITTON	
	STRINGFELLOW		KURT	E	89-NM-707	A	NACHMAN	
	DOUGHSTON		J. A. WEPT & F.		89-NE-314	A	ROSENSTEIN	
	A. STARKS, JR.							
	UNIV OF SOUTH FLORIDA	CHEN		ALAN	H	89-NC-350		WOODARCZYK
		MUNTZ		E. P.		89-AP-215		BARKER
		MCCURDY		DAVID	D	89-NM-701		WAKSMAN
MUTCHLER			T.		89-NE-380		ROSENSTEIN	
MCCAY			WEN	S	89-NA-417		HARITOS	
CHAN			JCHN	P	89-NC-383		ULRICH	
FERRARIS			SHIY	P	89-NA-411		HARITOS	
JOSHI			RICHARD	J	89-NC-343	A	MATUSZKO	
LAGOW			K	M	89-NA-375		HARITOS	
LIFECHTI			KEITH	H	89-NC-382		ULRICH	
UNIV OF TENNESSEE	PANNELL		SHAILOMOPA	K	89-NE-375		ROSENSTEIN	
	VARMA		RICHARD	W	89-NP-232		BARKER	
	GROW		GERALD	B	89-NE-359		LITTON	
	STRINGFELLOW		KURT	E	89-NM-707	A	NACHMAN	
	DOUGHSTON		J. A. WEPT & F.		89-NE-314	A	ROSENSTEIN	
	A. STARKS, JR.							
	UNIV OF TENNESSEE / SPACE INSTITUTE	CHEN		ALAN	H	89-NC-350		WOODARCZYK
		MUNTZ		E. P.		89-AP-215		BARKER
		MCCURDY		DAVID	D	89-NM-701		WAKSMAN
		MUTCHLER		T.		89-NE-380		ROSENSTEIN
MCCAY			WEN	S	89-NA-417		HARITOS	
CHAN			JCHN	P	89-NC-383		ULRICH	
FERRARIS			SHIY	P	89-NA-411		HARITOS	
JOSHI			RICHARD	J	89-NC-343	A	MATUSZKO	
LAGOW			K	M	89-NA-375		HARITOS	
LIFECHTI			KEITH	H	89-NC-382		ULRICH	
UNIV OF TEXAS	PANNELL		SHAILOMOPA	K	89-NE-375		ROSENSTEIN	
	VARMA		RICHARD	W	89-NP-232		BARKER	
	GROW		GERALD	B	89-NE-359		LITTON	
	STRINGFELLOW		KURT	E	89-NM-707	A	NACHMAN	
	DOUGHSTON		J. A. WEPT & F.		89-NE-314	A	ROSENSTEIN	
	A. STARKS, JR.							

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROFESAL	STATUS	P-M NAME
UNIV OF WASHINGTON		CCHOON	J.	P	89-NM-662		GLASSMAN
		LASIECKA	IRENA		89-NM-650		CROWLEY
		AKSAY	I.	A	89-NC-364		ULRICH
UNIV OF WISCONSIN		DOHERTY	NANCY	M	89-NC-370		ULRICH
		ENGEL	THOMAS		89-NC-345	A	MATUSZKO
		YEE	SINCLAIR	S	89-NC-351	A	BURGGRAF
		AGRAWAL	RAJEEV		83-NE-415		LITTON
		GUBNER	JOHN	A	89-NM-654		CROWLEY
UNIV OF WYOMING		HELLSTROM	ERIC	E	89-NM-691		BAROUCH
		CARRON	KEITH		89-NC-324		WILKES
		COGN	DENNIS	N	89-NC-313		ULRICH
		HANSEN	ANDREW	C	89-NE-416		ROSENSTEIN
UNIV OF YORK		SUTCLIFFE	ANDREW	T	89-NA-403		HARITOS
		DARRAH	B		89-NC-348		DAVIS
UNIVERSAL ENERGY SYSTEMS INC		DARRAH	RODNEY	C	89-XO-027	A	CAVENDER
		DARRAH	RODNEY		89-XO-039	A	CAVENDER
YANDELBILT UNIVERSITY		LEHERT	PAUL	G	89-XO-044	A	CAVENDER
		GIBSON	HARRY	W	89-XO-039		ULRICH
VIRGINIA POLYTECHNIC INST & STATE UNIV		CRCSEY	GLENN	A	89-NC-310		ULRICH
		CRCWE	CLAYTON	T	89-NC-377		ULRICH
WASHINGTON STATE UNIVERSITY		RAMAPRIAN	B	R	89-NE-365		ROSENSTEIN
		WHITNEY	PAUL		89-NA-396	A	HELIN
WASHINGTON UNIVERSITY		ABRAMS	RICHARD	A	89-NL-294		FREGLY
		GLLARI	ESIN		89-NL-313		TANGNEY
WAYNE STATE UNIVERSITY		KAZIMIERCZUK	MARIAN	K	89-NC-404		ULRICH
		WEISS	ISAAC		83-NE-411		WITT
WRIGHT STATE UNIVERSITY		HUBERMAN	BERNARDO	A	83-NE-394		ROSENSTEIN
		YU	Y		89-NE-323	D	GILES
XEROX RESEARCH CENTER		IPSEN	ILSE		89-NA-366		AMOS
		SAMUEL	ARTHUR	G	89-NM-677		HOLLAND
YALE UNIVERSITY		HIRSCH	JCY		89-NL-286		TANGNEY
		HIRSCH	JCY		89-NL-319		TANGNEY

PART II

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
REAL TIME STEREO TRIANGULATION FOR STRUCTURAL SYSTEM IDENTIFICATION TEXAS A AND M UNIVERSITY	JUNKINS JUNKINS	R 12 10/07/89 \$99,282	AMOS 89-NA-347	
SUBJECT CONTROL SYSTEM DESIGN IN TH FREQUENCY DOMAIN FOR HIGH PERFORMANCE IN PRESENCE OF REALISTIC UNCERTAINTIES & CONSTRAINTS TEXAS A AND M UNIVERSITY	JAYASURIYA SUHADA	N 36 13/07/89 \$337,628	AMOS 89-NA-352	
EFFECTIVE COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS GEORGE WASHINGTON UNIVERSITY	NOOR AHMED	R 36 03/08/89 \$219,588	A AMOS 89-NA-362	\$69,999 01/01/90 \$219,588
ACTIVE CONTROL OF VIBRATIONS IN LARGE COMPLIANT STRUCTURES BY MODE LOCALIZATION TEXAS A AND M UNIVERSITY	JAYASURIYA SUHADA	N 35 03/08/89 \$358,594	AMOS 89-NA-363	
COMPUTATIONAL METHODS FOR MATERIAL FAILURE PROCESSES NORTHWESTERN UNIVERSITY	BELYTSCHKO PROFESSOR	N 36 03/08/89 \$225,176	AMOS 89-NA-364	
STUDY OF DYNAMICS AND OPTIMAL CONTROL OF ROBOTIC MANIPULATORS BY CELL MAPPING APPROACH NEW JERSEY INSTITUTE OF TECHNOLOGY	LEU MING	N 36 04/08/89 \$255,972	D AMOS 89-NA-365	
DYNAMICS AND VIBRATION OF SANDWICH PLATES AND SHELLS WITH LAMINATED COMPOSITE FACINGS Y. Y. YU ASSOCIATES	YU Y	N 36 05/08/89 \$122,660	D AMOS 89-NA-366	
THEORETICAL AND FINITE ELEMENT VIBRATION OF AIRCRAFT CONTROL SURFACES PURDUE UNIVERSITY OF ENGINEERING & TECH	PAYDAR NASSER	N 12 05/08/89 \$24,692	D AMOS 89-NA-370	
MODELING AND CONTROL OF LARGE FLEXIBLE VEHICLES IN SPACE STANFORD UNIVERSITY	GRYSCN ARTHUR	R 12 17/08/89 \$50,000	AMOS 89-NA-376	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STOCHASTIC PROPERTIES OF MISTUNED BLADED DISK INDIANA UNIVERSITY-PURDUE UNIV AT INDEPLS	AFOLABI	N 36 17/08/89 \$218,450	AMOS 89-NA-377	
PROPULSION-AIRFRAME INTEGRATED DYNAMICS AND CONTROL FURDLE RESEARCH FOUNDATION	NWOKAH	N 36 17/09/89 \$285,122	AMOS 89-NA-378	
CONTROL AUGMENTED STRUCTURAL OPTIMIZATION OF AERCELASTICALLY TAILORED FIBER COMPOSITE WINGS UNIV OF CALIFORNIA	SCHMIT	R 36 17/08/89 \$469,051	AMOS 89-NA-379	
FISH VOLTAGE CONDUCTORS ON SPACECRAFT AND THEIR INTERACTIONS WITH SELF GENERATED PLASMA CLOUDS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	HASTINGS	R 24 19/09/89 \$219,405	A BIRKAN 89-NA-425	
A NEW STATISTICAL METHOD FOR IN-SITU DETERMINATION OF SOIL DYNAMIC PROPERTIES AND PREDICTION OF STRUCTURE RESPONSE AND LOADING UNIV OF MARYLAND	YANG	N 24 25/07/89 \$141,662	BOYCE 89-NA-353	
CONSTITUTIVE MODELING OF CEMENTED SOILS UNIV OF ARIZONA	KIOUSIS	N 24 16/08/89 \$153,693	BOYCE 89-NA-374	
PROVIDE COMPUTER SUPPORT ON WL GRAY-2 FOR AFOSR CONTRACT NO. 89-C-0037 WITH APPLIED RESEARCH ASSOCIATES, INC APPLIED RESEARCH ASSOCIATES INC	BLOUIN	N 12 18/09/89 \$760	A BOYCE 89-NA-413	\$760 01/10/89 \$760
CONSTRAINT NETS FOR LIFE CYCLE ENGINEERING NORTH CAROLINA STATE UNIVERSITY	C'GRADY	N 36 22/08/89 \$1,322,943	CROWLEY 89-NA-381	
A UNIFI C REPRESENTATION TO SUPPORT EVALUATION OF DESIGNS FOR MANUFAC URIBILITY REYSEL ER POLYTECHNIC INSTITUTE	WOZNY	N 36 22/08/89 \$1,245,462	CROWLEY 89-NA-382	

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TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROCESS OPTIMIZATION FOR IMPROVED STRUCTURAL INTEGRITY PENNSYLVANIA STATE UNIVERSITY	HAHN F	N 09 10/07/89 \$58,284	HARITOS 89-NA-345	
STRESS DIFFUSION IN COMPOSITES AT FINITE STRAIN CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	STRONGE K	N 36 10/07/89 \$87,612	HARITOS 89-NA-348	
DYNAMICS AND CONTROL OF TETHERED ANTENNAS/REFLECTORS IN ORBIT HOWARD UNIVERSITY	BAINLM PETER	R 24 10/07/89 \$237,535	A HARITOS 89-NA-349	\$0 15/12/89 \$94,000
MATRIX FRACTURE MECHANISMS AND MICROMECHANICS VARIABLES IN FIBER- REINFORCED CERAMIC MATRIX COMPOSITES CREXEL UNIVERSITY	WANG A	N 36 05/08/89 \$444,461	HARITOS 89-NA-367	
(90 URI-GB) ANISOTROPIC DAMAGE MECHANICS MODELING IN METAL MATRIX COMPOSITES LOUISIANA STATE UNIVERSITY	VOYIACJIS G	N 36 05/08/89 \$294,914	HARITOS 89-NA-368	
TAILORING INTERFACES FOR COMPOSITE MATERIALS UNIV OF TEXAS	LIECHTI K	N 36 17/08/89 \$449,366	HARITOS 89-NA-375	
CRAZING IN POLYMERIC AND COMPOSITE SYSTEMS UNIV OF MINNESOTA	HSIAC C	R 36 17/08/89 \$295,980	HARITOS 89-NA-380	
(90 URI) MODELLING OF WAVE PROPAGATION IN LAYERED MEDIA NORTHERN ILLINOIS UNIVERSITY	BLCOM FREDERICK	N 93 05/09/89 \$158,030	HARITOS 89-NA-388	
(90 UPT) NON-LOCAL CONTINUUM DAMAGE MECHANICS AND PLASTICITY APPROACH TO THE INELASTIC BEHAVIOR OF BRITTLE SOLIDS NORTH DAKOTA STATE UNIVERSITY	YAZDANI FRANK	N 36 05/09/89 \$165,000	HARITOS 89-NA-389	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI/G) CREEP IN METAL MATRIX-COMPOSITES		N 48 16/09/89 \$553,623	HARITOS 89-NA-397	
ILLINOIS INSTITUTE OF TECHNOLOGY	SCIAMMARELLA CESAR			
(90 URI/G) FUNDAMENTAL STUDY ON MECHANICAL BEHAVIOR OF SUPERCONDUCTING MAGNET-THERMO-ELASTIC COMPOSITES	LEE JONG	N 12 16/09/89 \$116,965	HARITOS 89-NA-398	
CLARKSON UNIVERSITY				
(90 URI/G) INTEGRATED MODELING AND SIMULATION OF DAMAGE IN COMPOSITE MATERIALS	MEHRDAD	N 36 16/09/89 \$750,000	HARITOS 89-NA-399	
UNIV OF NEBRASKA	MEHRDAD			
(90 URI/G) ANALYTICAL AND EXPERIMENTAL INVESTIGATION OF THE MICROFAILURE MECHANISM OF COMPOSITE MATERIALS	MANDEL JAMES	N 24 16/09/89 \$322,186	HARITOS 89-NA-400	
SYRACUSE UNIVERSITY				
(90 URI/G) THREE-DIMENSIONAL EXPERIMENTAL & COMPUTATIONAL ANALYSIS OF CRACKS APPROACHING INTERFACES	CHIANG FU-PEN	N 36 16/09/89 \$365,681	HARITOS 89-NA-401	
STATE UNIVERSITY OF NEW YORK				
(90 URI/G) A FRACTURE MODEL BASED ON SIMILARITY AT FAILURE FOR SOFTENING MATERIALS	CJDRCVIC RASKO	N 36 16/09/89 \$309,144	HARITOS 89-NA-402	
DUKE UNIVERSITY				
(90 URI/G) MECHANICAL & ELECTROMAGNETIC PROPERTIES OF POLYMERS IN THE PROCESS OF KINETIC FRACTURE	HANSEN ANDREW	N 36 16/09/89 \$361,563	HARITOS 89-NA-403	
UNIV OF WYOMING				
(90 URI/G) THE IN-SITU DEVELOPMENT OF A 3-D REINFORCEMENT STRUCTURE FOR THE IMPROVEMENT OF INTERLAMINAR PROPERTIES OF COMPOSITES	RADFORD DONALD	N 36 16/09/89 \$484,510	HARITOS 89-NA-404	
COLORADO STATE UNIVERSITY				
(90 URI) THERMOMECHANICAL FATIGUE FAILURE CRITERIA	NEWAZ GOLAM	N 36 16/09/89 \$449,157	HARITOS 89-NA-405	
ILLINOIS INSTITUTE OF TECHNOLOGY				

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(90 URI/G) MECHANICAL BEHAVIOR OF PHASE TRANSFORMING MATERIALS UNIV OF HOUSTON	RAVI-CHANDAR KRISHNASWAMY	N 36 16/09/89 \$337,774	HARITOS 89-NA-406	
(90 URI/G) EXPERIMENTAL INVESTIGATION ON THE DYNAMIC CRACK PROPAGATION IN CERAMICS LEHIGH UNIVERSITY	VOLOSHIN	N 36 16/09/89 \$630,239	HARITOS 89-NA-407	
(90 URI/G) AN EMPIRICAL METHOD OF MEASURING THE DEFORMATION AND FRACTURE STRENGTHS OF MICROSTRUCTURAL COMPONENTS SYRACUSE UNIVERSITY	LIU	N 36 16/09/89 \$747,591	HARITOS 89-NA-408	
(90 URI/G) EFFECTIVE PROPERTIES OF COMPOSITE MATERIALS AND POLYCRYSTALS FROM MICROSTRUCTURE MEASUREMENT CATHOLIC UNIVERSITY OF AMERICA	BERAN	N 24 16/09/89 \$601,312	HARITOS 89-NA-409	
(90 URI/G) COMPUTER MODELING OF FAILURE PROCESSES OF FIBROUS COMPOSITE MATERIALS UNIV OF SOUTH CAROLINA	LYNCH	N 36 16/09/89 \$527,379	HARITOS 89-NA-410	
(90 URI/G) MICROSTRUCTURAL DESIGN OF CARBON FIBERS TO IMPROVE COMPOSITE PROPERTIES UNIV OF TEXAS	JOSHI	N 36 16/09/89 \$498,958	HARITOS 89-NA-411	
(90 URI/G) CONSTITUTIVE MODELING AND EXPERIMENTAL STUDIES OF DEFORMATION AND FAILURE IN PARTICLE REINFORCED METAL-MATRIX COMPOSITES UNIV OF RHODE ISLAND	TAGGART DAVID	N 24 16/09/89 \$211,656	HARITOS 89-NA-412	
(90 URI/G) MICROSTRUCTURAL CHARACTERIZATION OF GLASS BRITTLE MATERIALS UNDER DYNAMIC LOADS UNIV OF NEW MEXICO	ROSS TIMOTHY	N 36 18/09/89 \$303,230	HARITOS 89-NA-414	
(90 URI/G) EXPERIMENTAL MICROMECHANICS OF COMPOSITE MATERIALS MONTANA STATE UNIVERSITY	MANDELL JOHN	N 36 18/09/89 \$389,067	HARITOS 89-NA-415	

TITLE	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE
			AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
(90 UPI/G) A COMPREHENSIVE STUDY OF MATRIX FRACTURE MECHANISMS IN FIBER-REINFORCED CERAMIC MATRIX COMPOSITES	CREXEL UNIVERSITY	WANG ALBERT	N 36 18/09/89 \$477,000	HARITOS 89-NA-416	
(90 UPI/G) UNDERSTAND OF FAILURE MECHANISM AND STRENGTH IMPROVEMENT BY MICRO-MACRO ANALYSIS IN LAMINATED COMPOSITES	UNIV OF TEXAS	CHAN WEN	N 36 18/09/89 \$440,416	HARITOS 89-NA-417	
(90 UPI/G) ROLE OF STOCHASTIC MICROSTRUCTURES ON INELASTIC MATERIAL BEHAVIOR	STATE UNIVERSITY OF NEW YORK	KUSHNER ALAN	N 36 18/09/89 \$380,978	HARITOS 89-NA-418	
(90 UPI/G) MICROMECHANICS OF INCLUSION DERORING	SYRACUSE UNIVERSITY	LEVY ALAN	N 36 18/09/89 \$232,099	HARITOS 89-NA-419	
MESOMECHANICAL THEORY FOR EXPANSIVE DAMAGE IN MONOTONIC AND CYCLIC FRACTURE OF CERAMIC COMPOSITES	NORTHWESTERN UNIVERSITY	BAZANT IDENEK	N 36 19/09/89 \$275,047	HARITOS 89-NA-420	
(90 UPI/G) STOCHASTIC FAILURE ANALYSIS OF BRITTLE MATERIALS USING DISCRETE PARTICLE SIMULATION	DUKE UNIVERSITY	JACOBS TIMOTHY	N 36 19/09/89 \$292,479	HARITOS 89-NA-421	
(90 UPI/G) MICROMECHANICAL PREDICTION OF TENSILE DAMAGE FOR CERAMIC MATRIX COMPOSITES UNDER HIGH TEMPERATURE	CITY COLLEGE - CUNY	CELALE FERIDUN	N 36 19/09/89 \$269,371	HARITOS 89-NA-422	
(90 UPI/G) AN EXPERIMENTAL APPROACH TO PREDICT THE GROWTH RATE OF SMALL FATIGUE CRACKS BASED ON LARGE CRACK DATA	UNIV OF PUERTO RICO	MAZUMCAR FRANAB	N 24 19/09/89 \$150,368	HARITOS 89-NA-423	
(90 UPI/G) MECHANICS OF HIGH TEMPERATURES METAL MATRIX COMPOSITES	ARIZONA STATE UNIVERSITY	KOURIS GEMTRIS	N 36 19/09/89 \$514,500	HARITOS 89-NA-424	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
CALCULATED ACALINEAR AERODYNAMICS OF SLENDER WINGS IN SEVERE UNSTEADY MOTION INCLUDING EDGE SEPARATION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MCCUNE	R 24 25/07/89 \$92,300	A HELIN 89-NA-356	\$92,300 01/11/89 \$92,300
ACTIVE STABILIZATION OF AEROMECHANICAL SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	EPSTEIN	R 36 26/07/89 \$750,654	A HELIN 89-NA-359	\$250,014 01/11/89 \$750,654
SIMULATION, CHARACTERIZATION AND CONTROL OF FORCED UNSTEADY SEPARATED VISCOUS FLOWS USING NAVIER-STOKES EQUATIONS UNIV OF CINCINNATI	GHIA	N 24 30/08/89 \$315,649	A HELIN 89-NA-384	\$150,728 01/01/90 \$315,649
ACTIVE CONTROL OF VORTICAL FLOWFIELDS STANFORD UNIVERSITY	ROBERTS	N 24 30/08/89 \$330,000	HELIN 89-NA-386	
UNSTEADY FLUID DYNAMIC INTERACTION IN SUPERSONIC COMBUSTORS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$118,188	HELIN 89-NA-394	
EXPERIMENTAL STUDIES OF REATTACHING SONIC RADIAL FLOWS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$153,777	HELIN 89-NA-395	\$112,747 01/01/90 \$225,519
STUDY OF THE LEADING-EDGE VORTEX DYNAMICS IN THE UNSTEADY FLOW OVER AN AIRFOIL WASHINGTON STATE UNIVERSITY	RAMPRIAN	N 24 14/09/89 \$225,519	A HELIN 89-NA-396	\$103,000 01/10/89 \$311,700
COMPRESSIBILITY EFFECTS ON DYNAMIC STALL OF AIRFOILS UNDERGOING RAPID TRANSIENT PITCHING MOTION NAVAL POST GRADUATE SCHOOL	CHANDRASEKHARA	N 36 20/09/89 \$311,700	A HELIN 89-NA-426	\$103,000 01/10/89 \$311,700
THE FEASIBILITY OF THRUST AUGMENTING EJECTORS FOR HIGH-SPEED AIRCRAFT AND MISSILES GEORGE WASHINGTON UNIVERSITY	GAROS	N 24 27/09/89 \$290,500	HELIN 89-NA-427	

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IN THE LARGE COHERENT STRUCTURES IN A WALL JET	WYGHANSKI	R 12 21/07/89 \$108,990	A MCMICHAEL 89-NA-354	\$108,990 13/11/89 \$108,990
UNIV OF ARIZONA	ISRAEL			
STUDY OF TURBULENT BOUNDARY LAYER STRUCTURES BY DIRECT NUMERICAL AND LARGE-EDDY SIMULATION	PERRING	N 24 25/07/89 \$204,500	A MCMICHAEL 89-NA-357	\$99,700 01/11/89 \$204,500
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH	JACKSON			
STRUCTURE & DYNAMICS OF TURBULENT WALL LAYERS	ADRIAN	N 36 09/08/89 \$328,589	MCMICHAEL 89-NA-371	
UNIV OF ILLINOIS	RONALD			
NAVIER-STOKES SIMULATION OF BOUNDARY LAYER TRANSITION	REED	R 36 09/08/89 \$280,607	MCMICHAEL 89-NA-372	
ARIZONA STATE UNIVERSITY	HELEN			
NUMERICAL STUDIES OF THE STRUCTURE OF COMPRESSIBLE TURBULENT SHEAR FLOWS	CRSZAG	R 32 14/09/89 \$486,807	A MCMICHAEL 89-NA-393	\$119,834 15/01/90 \$486,807
PRINCETON UNIVERSITY	STEVEN			
DYNAMICAL SYSTEM PREDICTION OF THE SCALAR FIELD IN A TURBULENT CHANNEL FLOW	TRUMAN	N 24 27/09/89 \$70,000	MCMICHAEL 89-NA-428	
UNIV OF NEW MEXICO	C RAMOALL			
THREE-DIMENSIONAL STRUCTURE OF TRANSITIONAL BOUNDARY LAYERS	SARIC	N 24 27/09/89 \$211,000	A MCMICHAEL 89-NA-429	\$78,000 02/01/90 \$216,000
ARIZONA STATE UNIVERSITY	WILLIAM			
JOINT AGENCY HYPERSONIC RESEARCH AND TRAINING PROGRAM	WANDER	N 12 06/07/89 \$150,000	A SAKELL 89-NA-343	\$150,000 01/10/89 \$150,000
NASA - NASA AERONAUTICAL AND SPACE ADMIN	STEVE			
COMPUTATIONAL STUDIES OF VORTEX BREAKDOWN	NEITZEL	N 12 14/07/89 \$41,670	SAKELL 89-NA-353	
ARIZONA STATE UNIVERSITY	G			

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE STARTY DATE TOT AMT
COLLABORATIVE TESTING OF TURBULENCE MODELS STANFORD UNIVERSITY	BRADSPAW PETER	N 16 01/08/89 \$223,433	A SAKELL 89-NA-360	\$223,433 15/11/89 \$223,433
STUDY OF TURBULENCE IN RAREFIED GASES NIELSEN ENGINEERING AND RESEARCH CO	NIXON DAVID	N 36 14/09/89 \$324,394	SAKELL 89-NA-390	
INVESTIGATION OF BURNETT EQUATIONS FOR TWO-DIMENSIONAL HYPERSONIC FLOW STANFORD UNIVERSITY	CHAPMAN CEAN	N 12 14/09/89 \$130,684	SAKELL 89-NA-391	
DEVELOP A VISCOUS SHOCK LAYER THEORY FROM MAXWELL'S TRANSFER EQUATIONS AND RELATED PARTICULATE/CONTINUUM ANALYSES UNIV OF SOUTHERN CALIFORNIA	CHENG HSIEN	R 24 14/09/89 \$234,205	SAKELL 89-NA-392	
FUNDAMENTAL STUDIES OF DROPLET INTERACTIONS IN DENSE SPRAYS UNIV OF CALIFORNIA	SIRIGNANC WILLIAM	N 36 10/07/89 \$312,160	A TISHKOFF 89-NA-350	\$100,000 01/11/89 \$312,168
FLAME TURBULENCE INTERACTIONS PENNSYLVANIA STATE UNIVERSITY	SANTAVICCA DOMENIC	N 36 24/07/89 \$227,568	A TISHKOFF 89-NA-355	\$74,693 01/11/89 \$227,568
LIQUID JET BREAKUP: DIRECT NUMERICAL SIMULATION STATE UNIVERSITY OF NEW YORK	ASHGRIZ KASSER	N 24 05/08/89 \$96,815	C TISHKOFF 89-NA-369	
SOOT PARTICLE INCEPTION AND GROWTH PROCESSES IN COMBUSTION PENNSYLVANIA STATE UNIVERSITY	SANTCRO ROBERT	R 24 24/08/89 \$210,000	A TISHKOFF 89-NA-383	\$100,000 15/01/90 \$210,000
POVPL NONLINEAR LASER DIAGNOSTIC TECHNIQUES CPI INTERNATIONAL	FUESTIS DAVID	N 36 05/09/89 \$619,720	A TISHKOFF 89-NA-397	\$163,907 01/03/90 \$0

TITLE
 TITLE (CONT.)
 INSTITUTION

1 STOCHASTIC THEORY FOR THE CRACK INSTABILITY IN SHORT FIBER
 REINFORCED COMPOSITES
 UNIV OF NEW MEXICO

INVESTIGATOR

JU FREDERICK

MECHANICAL INTERACTIONS BETWEEN SYNTHETIC FIBER & CEMENT BASED
 MATRIX IN FRC COMPOSITES
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LI

VICTOR

MICROCRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY JOINT

UNIV OF HOUSTON C HSU

THOMAS

TYPE/MONTHS
 RECEIVED
 AMOUNT

N 36
 07/07/89
 \$336,971

N 24
 09/08/89
 \$195,800

N 24
 30/08/89
 \$231,794

STATUS
 PROGRAM MANAGER
 PROPOSAL #

WU 89-NA-344

WU 89-NA-373

WU 89-NA-335

INITIATE
 START DATE
 TOT AMT

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HYPER-THERMAL ATOMIC OXYGEN GENERATOR NASA - LANGLEY RESEARCH CENTER	CUTLAW	N 12 04/08/89 \$30,000	A BURGGRAF 89-NC-344	\$30,000 01/10/89 \$30,000
A COMBINED XPS-AES-ISS-SIMS-MODULATED MOLECULAR BEAM INVESTIGATION OF THE REACTIONS OF OXYGEN AND FLUORINE WITH SILICON SURFACES UNIV OF WASHINGTON	ENGEL THOMAS	R 08 15/08/89 \$81,069	A BURGGRAF 89-NC-351	\$81,069 01/04/90 \$81,069
EPITAXY INDUCED BY ENERGETIC CHANNELLED IONS UNIV OF FLORIDA	SEIBERLING L	N 12 05/09/89 \$117,584	BURGGRAF 89-NC-359	
1990 SANIBEL SYMPOSIA UNIV OF FLORIDA	CHRN YNGVE	N 06 06/07/89 \$15,000	DAVIS 89-NC-312	
NON-LINEAR OPTICAL EFFECTS IN MOLECULES UNIV OF FLORIDA	BARTLETT RODNEY	N 12 11/07/89 \$35,779	DAVIS 89-NC-314	
NONLINEAR OPTICAL PROPERTIES OF CONDUCTING POLYMERS UNIV OF HOUSTON	SU W	N 12 20/07/89 \$98,474	DAVIS 89-NC-318	
FATIGAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE POLYLINER OPTICAL MATERIALS NORTHWESTERN UNIVERSITY	MARKS TCBIN	N 12 20/07/89 \$261,508	A DAVIS 89-NC-319	\$261,508 01/12/89 \$721,168
GAS-SOLID DYNAMICS AT DISORDERED AND ADSORBATE-COVERED SURFACES PRINCETON UNIVERSITY	PAITZ HERSCHEL	N 12 27/07/89 \$172,444	DAVIS 89-NC-325	
PHOTONICS AND NONLINEAR OPTICS WITH MOLECULAR MATERIALS AND POLYMERS STATE UNIVERSITY OF NEW YORK	PRASAD FARAS	R 12 31/07/89 \$336,766	DAVIS 89-NC-327	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE STAFF DATE TGT AMT
ROMANIAN DYNAMICS SIMULATIONS AND GROUP THEORY STATISTICAL MECHANICS OF SUSPENSIONS ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	MEYES GEORGE	N 12 31/07/89 \$64,943	DAVIS 89-NC-330	
THEORETICAL INVESTIGATIONS OF THE NONLINEAR OPTICAL RESPONSE OF CRYSTAL POLYMERS AND POLYMERIC DEVICES STATE UNIVERSITY OF NEW YORK	THOMAS	N 12 31/07/89 \$165,000	DAVIS 89-NC-332	
SPECTROSCOPY OF THE TRANSITION STATE REGION IN HYDROGEN TRANSFER REACTIONS UNIV OF CALIFORNIA	NEUMARK	R 12 31/07/89 \$147,937	DAVIS 89-NC-333	
STUDIES OF MOLECULAR BONDS IN THE FEMTOSECOND TIME SCALE WITH SUPERSOUND MOLECULAR BEAMS UNIV OF NEW MEXICO	WALTERS EDWARD	N 12 01/08/89 \$228,580	CAVIS 89-NC-335	
THEORIES AND PREDICTIONS FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	COWELL F	N 12 01/08/89 \$185,900	DAVIS 89-NC-338	
IONIZED-BEAM/PARTIALLY-IONIZED-BEAM DEPOSITION OF ELECTRO-OPTICAL AND NONLINEAR OPTICAL ORGANIC MATERIALS & DEVICE DEVELOPMENT RENSSELAER POLYTECHNIC INSTITUTE	MCDONALD JOHN	N 12 01/08/89 \$337,301	DAVIS 89-NC-339	
THEORIES AND PREDICTIONS FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES LOS ALAMOS TECHNICAL ASSOCIATES INC	COWELL F.	N 12 10/09/89 \$185,900	DAVIS 89-NC-346	
THE CALCULATION OF HIGHLY EXCITED ROTATION-VIBRATION MOTIONS AND RADIATIVE LIFETIMES OF SOME SMALL MOLECULES UNIV OF YORK	SUTCLIFFE B	N 12 14/08/89 \$48,885	DAVIS 89-NC-348	
FOURTH INTERNATIONAL SYMPOSIUM ON SOLUBILITY PHENOMENA RENSSELAER POLYTECHNIC INSTITUTE	KRAUSE SONJA	N 12 15/08/89 \$5,000	DAVIS 89-NC-352	

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THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES STANFORD UNIVERSITY	ROSS	R 12 31/08/89 \$140,000	A DAVIS 89-NC-358	\$140,000 01/01/90 \$140,000
VOLCANIC GROUND STATES THEORETICAL & PHYSICAL CHEMISTRY INST	NICOLAIDES C. A.	N 12 06/09/89 \$102,000	D DAVIS 89-NC-362	
FUNCTIONALIZATION OF INORGANIC NETWORK POLYMERS PENNSYLVANIA STATE UNIVERSITY	BIANCCINI PATRICIA	N 12 03/07/89 \$157,519	MATUSZKO 89-NC-309	
PROCESSIBLE PRECURSORS FOR METAL NITRIDES ULTRASYSTEMS INC	FACICREK K	N 12 28/07/89 \$96,316	MATUSZKO 89-NC-326	
POLYMER-SUPPORTED SILSESQUOXANES AS MODELS FOR SILICA UNIV OF CALIFORNIA	FEMER FRANK	N 12 31/07/89 \$148,270	MATUSZKO 89-NC-334	
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY: EMERGING TECHNOLOGY UNIV OF TEXAS	LAGON RICHARD	P 12 06/08/89 \$100,000	A MATUSZKO 89-NC-343	\$100,000 01/12/89 \$100,000
SYNTHESIS AND STUDY OF METALLONITRIDE COMPLEXES AND POLYMERS UNIV OF WASHINGTON	COHERTY NANCY	R 12 09/09/89 \$72,944	A MATUSZKO 89-NC-345	\$72,944 15/01/90 \$149,436
BIOLOGICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS GENERAL ELECTRIC CO	LEIR TERRY	P 12 21/08/89 \$95,000	A MATUSZKO 89-NC-354	\$70,421 01/01/90 \$97,895
BIOLOGICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS GENERAL ELECTRIC CO	FINKBEINER FERMAN	R 12 13/09/89 \$93,895	M MATUSZKO 89-NC-381	

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PHOTOFABRICATION OF THREE-DIMENSIONAL PROTOTYPES ERI INTERNATIONAL	NARANG SUBHASH	N 12 15/09/89 \$145,952	MATUSZKO 89-NC-416	
NEAR ELECTRIFICATION OF ICE PHASE PRECIPITATION UNIV OF NEVADA	HALLETT JOHN	N 12 21/07/89 \$99,978	STOBIE 89-NC-320	
THE EFFECTS OF ATMOSPHERIC TURBULENCE ON IMAGE QUALITY UNIV OF COLORADO	FREHLICH ROD	N 12 31/07/89 \$66,782	STOBIE 89-NC-328	
SCATTERING OF RADIATION BY COMPLEX MICROPARTICLES: A LABORATORY FOR MICROPARTICLE PHYSICS CATHOLIC UNIVERSITY OF AMERICA	UBERALL F	N 12 10/08/89 \$63,000	STOBIE 89-NC-347	
POLY(METACRYLYLE ETHERS), NOVEL HIGH PERFORMANCE THERMOPLASTICS VIRGINIA POLYTECHNIC INST & STATE UNIV	GIBSON HARRY	N 12 05/07/89 \$185,441	ULRICH 89-NC-310	
THREE DIMENSIONAL PARTICLE GRATING NONLINEAR OPTICAL AMPLIFIERS UNIV OF WYOMING	CARRON KEITH	N 12 11/07/89 \$253,315	ULRICH 89-NC-313	
ENHANCED QUANTUM DOT NONLINEAR OPTICAL MATERIALS SATELLE COLUMBUS LABS	MELLING PETER	N 12 17/07/89 \$121,900	ULRICH 89-NC-316	
PREPARATION AND CHARACTERISATION OF POLY DI AND TRI-ACETYLENES AS MATERIALS FOR NON-LINEAR OPTICS PAPIER POLYTECHNIC OF EDINBURGH	MILBURN G. H. W.	N 12 24/07/89 \$38,731	ULRICH 89-NC-321	
NOBEL SYMPOSIUM IN CHEMISTRY: CONJUGATED POLYMERS AND RELATED MATERIALS: THE INTERCONNECTION OF CHEMICAL & ELECTRONIC STRUCTURE UNIV OF CALIFORNIA	MEGER ALAN	N 12 25/07/89 \$10,000	ULRICH 89-NC-322	

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INVESTIGATION OF COMPOSITIONAL MODIFICATIONS OF POTASSIUM TITANYL PHOSPHATE FOR NONLINEAR OPTICAL APPLICATIONS CORNELL UNIVERSITY	GLAZER	N 12 25/07/89 \$90,221	ULRICH 89-NC-323	
PHASE EQUILIBRIUM STUDIES IN NZP SYSTEMS PENNSYLVANIA STATE UNIVERSITY	AGRAWAL	N 12 31/07/89 \$112,810	ULRICH 89-NC-331	
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS EDGING CO	LUMMAN THOMAS	R 12 03/08/89 \$451,425	ULRICH 89-NC-342	
MESEPIITAXY A "UNIVERSAL" ROUTE TO ORIENTED MATERIALS UNIV OF CALIFORNIA	SMITH PAUL	N 12 14/08/89 \$250,000	ULRICH 89-NC-349	
SYNTHESIS OF NEW ORGANIC AND ORGANOMETALLIC MATERIALS WITH SECOND- ORDER NONLINEAR OPTICAL PROPERTIES NET PROPULSION LABORATORY	MARDER SETH	N 12 16/08/89 \$201,300	ULRICH 89-NC-353	
(URI) STUDY OF MECHANICAL DAMPING IN AIRCRAFT TIRE MATERIAL IOWA STATE UNIV OF SCIENCE AND TECH	LAYAL VINAY	N 12 29/08/89 \$71,255	ULRICH 89-NC-355	
(URI) PHASE BEHAVIOR, STRUCTURE, AND PROPERTIES OF MDEL BLOCK COPOLYMERS UNIV OF MINNESOTA	BATES FRANK	N 12 29/08/89 \$247,363	ULRICH 89-NC-356	
(URI) PHASE BEHAVIOR STRUCTURE AND PROPERTIES OF MDEL BLOCK COPOLYMERS UNIV OF MINNESOTA	BATES FRANK	N 12 06/09/89 \$247,363	M ULRICH 89-NC-360	
NEW POLYMERS FOR NONLINEAR OPTICS APLICATIONS NORTHERN ILLINOIS UNIVERSITY	SPANGLER CHARLES	N 12 06/09/89 \$243,241	ULRICH 89-NC-361	

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MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS UNIV OF WASHINGTON	AKSAY I.	N 06 07/09/89 \$250,000	ULRICH 89-NC-364	
THE DESIGN, SYNTHESIS AND CHARACTERIZATION OF ORGANIC, ORGANOMETAL LIC AND POLYMERIC MATERIALS WITH THIRD-ORDER OPTICAL NONLINEARITIE CALIFORNIA INSTITUTE OF TECHNOLOGY	ROBERT GRUBBS	N 12 11/09/89 \$312,675	ULRICH 89-NC-365	
ULTRA-HIGH BIAXIAL ORIENTATION OF POLYMERS FUTGERS - THE STATE UNIVERSITY (ENGR)	PAE K	N 12 11/09/89 \$95,638	ULRICH 89-NC-366	
(CUR) MOLECULAR PROPERTIES OF DIMOR-ACCEPTOR POLYENES: A STUDY OF NONLINEAR OPTICAL RESPONSES NORTHERN ILLIACIS UNIVERSITY	LIN CHHIU-TSU	N 12 12/09/89 \$82,838	ULRICH 89-NC-367	
SYMPOSIUM R, MATERIALS SYNTHESIS UTILIZING BIOLOGICAL PROCESSES BATTELLE PACIFIC NORTHWEST LABORATORIES	ALPER MARK	N 06 12/09/89 \$5,000	ULPICH 89-NC-368	
(CUR) HYDROLYSIS REACTION AND POSITRONIUM DECAY IN SILICA GELS TEXAS CHRISTIAN UNIVERSITY	ZERDA TADEUSZ	N 12 12/09/89 \$58,347	ULRICH 89-NC-369	
MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS UNIV OF WASHINGTON	AKSAY I	N 12 12/09/89 \$675,000	ULRICH 89-NC-370	
(CUR) SUBMICRON PHOTOLITHOGRAPHY OF POLYMERS: FUNDAMENTAL PROCESSES AND DEVICE APPLICATIONS RICE UNIVERSITY	SAUERBREV ROLAND	N 12 13/09/89 \$260,000	ULRICH 89-NC-371	
(CUR) ELECTRONIC PROPERTIES OF POLY (FLUCRO ACETYLENE) CASE WESTERN RESERVE UNIVERSITY	LANDC JEROME	N 12 13/09/89 \$245,326	ULRICH 89-NC-372	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SOLIC-STATE TUNABLE LASERS BASED ON ORGANIC DYES IN SOL-GEL DERIVED MATRICES UNIV OF CALIFORNIA	MACKENZIE J	N 12 13/09/89 \$75,000	M ULRICH 89-NC-373	
(URI) NONLINEAR OPTICAL SPECTROSCOPY AND WAVEGUIDING IN POLYMERS UNIV OF MARYLAND, BALTIMORE CAMPUS	CARTER GARY	N 12 13/09/89 \$111,927	ULRICH 89-NC-374	
(URI) INTELLIGENT PROCESSING OF ADVANCED COMPOSITES TUFTS UNIVERSITY	SUNG NAKHO	N 12 13/09/89 \$106,779	ULRICH 89-NC-375	
(URI) OPTICAL CONSTANTS OF POLYMERS UNIV OF ALABAMA	BAIRD JAMES	N 12 13/03/89 \$65,187	ULRICH 89-NC-376	
(URI) DESIGN, SYNTHESIS, AND CHARACTERIZATION OF NOVEL PHASES OF METAL-ORGANIC SOLIDS CONTAINING EXTENDED ELECTRONIC STRUCTURES WASHINGTON STATE UNIVERSITY	CRCSEBY GLENN	N 12 13/03/89 \$249,996	ULRICH 89-NC-377	
(URI) CONTROL OF MOBILITY IN MICROSTRUCTURED POLYMER MATERIALS UNIV OF MINNESOTA	LODGE TIMOTHY	N 12 13/09/89 \$159,671	ULRICH 89-NC-378	
(URI) NEW METHODS FOR DIRECT PRODUCTION OF BENZIMIDAZOLE STRUCTURAL FCAM RICE UNIVERSITY	ARMEIADES CONSTANTINE	N 12 13/09/89 \$197,228	ULRICH 89-NC-379	
(URI) DIRECT IMAGING OF THE SURFACE MICROSTRUCTURE OF DIELECTRIC MATERIALS USING AN ATOMIC FORCE MICROSCOPE UNIV OF MAINE	UNERTL WILLIAM	N 12 13/09/89 \$169,854	ULRICH 89-NC-380	
(URI) TRANSITION METAL SUBSTITUTED OLIGO AND POLYSILANE MATERIALS UNIV OF TEXAS	FANNELL KEITH	N 12 13/09/89 \$194,709	ULRICH 89-NC-382	

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(CURI) ELECTRONIC APPLICATIONS OF ULTRATHIN POLYMER FILMS UNIV OF TEXAS	FERRARIS JOHN	N 12 13/09/89 \$201,226	ULRICH 89-NC-383	
(CURI) PHYSICAL PROPERTY CHARACTERIZATION STUDIES OF HIGH-PERFORMAN CE POLYMERS AND COMPOSITES BY THERMALLY STIMULATED CURRENT SPECTRO LEEMSON UNIVERSITY	ELLISON MICHAEL	N 12 13/09/89 \$153,763	ULRICH 89-NC-384	
(CURI) A STUDY OF THE EARLY PHASES OF AN ADDITIVE REACTION BY NUCLEATION IN AN EXPANSION CLOUD CHAMBER UNIV OF MISSOURI	SCHMITT JOHN	N 12 13/09/89 \$80,385	ULRICH 89-NC-385	
(CURI) MATERIALS FOR ELECTROOPTIC DEVICES UNIV OF PITTSBURGH	FALK JOEL	N 12 13/09/89 \$331,977	ULRICH 89-NC-386	
(CURI) MOLECULAR MICROCOMPOSITES DERIVED FROM THE INTERCALATION OF CONDUCTIVE POLYMERS IN LAYERED METAL-OXIDE XEROGELS MICHIGAN STATE UNIVERSITY	KANACZIOIS MERCOURI	N 12 13/09/89 \$133,747	ULRICH 89-NC-387	
(CURI) MICROSTRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP OF ADVANCED GRAPHITE/POLYMER COMPOSITES TUSKEGEE INSTITUTE	AGLAN HERSHMAT	N 12 13/09/89 \$249,420	ULRICH 89-NC-388	
(CURI) DEFECT CONTROL OF CARBON FIBER THERMOPLASTIC COMPOSITES CLARKSON UNIVERSITY	CAMPELL GREGORY	N 12 13/09/89 \$250,000	ULRICH 89-NC-389	
(CURI) NONLINEAR OPTICAL PROPERTIES OF FLUORINATED POLYACETYLENE UNIV OF CENTRAL FLORIDA	HEINONEN CLLE	N 12 13/09/89 \$75,222	ULRICH 89-NC-390	
(CURI) DIFFUSION OF DIELECTRIC PARTICLES IN POLYMER NETWORK UNIV OF ARKANSAS/PINE BLUFF	CHICHURY ASLAM	N 12 13/09/89 \$191,359	ULRICH 89-NC-391	

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(URI) NOVEL THERMOPLASTIC LIQUID CRYSTAL BLOCK COPOLYMERS UNIV OF CINCINNATI	ROE POLLACK	N 12 13/09/89 \$168,761	ULRICH 89-NC-392	
(URI) INFRARED DICHOISM AS A PROBE OF POLYMER BLEND MICROSTRUCTURE AND DYNAMICS UNIV OF CINCINNATI	STEVEN POLLACK	N 12 13/09/89 \$72,776	ULRICH 89-NC-393	
(URI) STEREOLOGRAPHY FOR THICK-SECTION COMPOSITES CLEMSON UNIVERSITY	AMOD CGALE	N 12 14/09/89 \$245,928	ULRICH 89-NC-394	
(URI) COMPUTATIONAL AND EXPERIMENTAL STUDIES OF THE MECHANISMS OF NITRICATION OF POLYCYCXYANES CLARK COLLEGE	MARIAM VITBAREK	N 12 14/09/89 \$131,736	ULRICH 89-NC-395	
(URI) MOLECULAR STRUCTURE AND DYNAMICAL CHARACTERIZATIONS OF ADVANCED POLYMERIC MATERIALS USING STEP-SCAN FTIR DUKE UNIVERSITY	RICHARD PALMER	N 12 14/09/89 \$157,245	ULRICH 89-NC-396	
(URI) TERNARY CHALCOFYRITE COMPOUNDS & ORDERED POLYMER-SILICA COMPOSITES FOR OPTICAL, ELECTRONIC & STRUCTURAL APPLICATIONS OKLAHOMA STATE UNIVERSITY	CORINNA CZEKAJ	N 12 14/09/89 \$314,182	ULRICH 89-NC-397	
(URI) REACTING AND WRITING AT THE SINGLE MOLECULE LIMIT: SITE SPECIFIC RESPONSE FROM POLYENES UNIV OF CALIFORNIA	BRYANE KOHLER	N 12 14/09/89 \$160,361	ULRICH 89-NC-398	
(URI) OPTICAL PROPERTIES OF SUSPENSIONS OF (ORGANIC) MICRO- PARTICLES UNIV OF LOWELL	MICHAEL FIDDY	N 12 14/09/89 \$67,600	ULRICH 89-NC-399	
(URI) POLYMERS WITH NONLINEAR OPTICAL PROPERTIES UNIV OF ALABAMA	SAMUEL MCMANUS	N 12 14/09/89 \$3,255,390	ULRICH 89-NC-400	

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(URI) POLYALKYLENE PHOSPHATES AS LIQUID CRYSTALS AND IONIC CONDUCTORS UNIV OF ALABAMA	GRAY	N 12 14/09/89 \$231,632	ULRICH 89-NC-401	
(URI) CONDUCTING POLYMERS IN ZEOLITE HOSTS-DESIGN OF ELECTRONIC NANOSTRUCTURES UNIV OF NEW MEXICO	BEIN	N 12 14/09/89 \$192,616	ULRICH 89-NC-402	
(URI) STUDIES IN SILICON CHEMISTRY NORTH DAKOTA STATE UNIVERSITY	BOUDJOUK PHILIP	N 12 14/09/89 \$248,909	ULRICH 89-NC-403	
(URI) THERMODYNAMICS AND RHEOLOGY OF SUPERCRITICAL GAS/POLYMER PROCESSING WAYNE STATE UNIVERSITY	GULARI ESIN	N 12 14/09/89 \$147,245	ULRICH 89-NC-404	
(URI) COMPREHENSIVE EVALUATION OF CONSTITUTIVE PROPERTIES OF POLYMER CONCRETE MATERIALS AND RESEARCH EQUIPMENT FOR CONSTITUTIVE NORTH CAROLINA A&T STATE UNIVERSITY SALAMI	P. RESZ	N 12 14/09/89 \$249,916	ULRICH 89-NC-405	
(URI) ARTIFICIAL DI-ELECTRIC POLYMERIC MATERIALS NEW JERSEY INSTITUTE OF TECHNOLOGY	GREBEL HAIM	N 12 14/09/89 \$89,770	ULRICH 89-NC-406	
(URI) NANOSTRUCTURAL ASPECTS OF ADHESION AT METAL-POLYMER INTERFACES CREVEL UNIVERSITY	DINARCO N.	N 12 14/09/89 \$156,190	ULRICH 89-NC-407	
(URI) TERPERZ NONLINEAR OPTICAL EFFECTS AND COMPUTATIONAL LOGIC ELEMENTS USING POLYMERS CITY COLLEGE - CUNY	ALFANO FOBERT	N 12 14/09/89 \$231,594	ULRICH 89-NC-408	
(URI) OPTICAL STUDIES OF GLASSES EMBEDDED WITH INORGANIC IONS AND ORGANIC CYC ALABAMA A&M UNIVERSITY	REDDY B.	N 12 15/09/89 \$241,932	ULRICH 89-NC-409	

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(CUR) RELAXATION PROCESSES IN SUPERCOOLED LIQUIDS NEAR THE GLASS TRANSITION NAVASAS STATE UNIVERSITY	SORENSEN CHRISTOPHER	N 12 15/09/89 \$147,415	ULRICH 89-NC-410	
(CUR) OPTICAL PROPERTIES AND APPLICATIONS OF COLLECTRIC NANOPARTICLES UNIV OF OREGON	MOSSBERG THOMAS	N 12 15/09/89 \$120,222	ULRICH 89-NC-411	
(CUR) STRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP IN RUBBER COMPOUNDS CASE WESTERN RESERVE UNIVERSITY	MOET ABDELSAMIE	N 12 15/09/89 \$163,296	ULRICH 89-NC-412	
(CUR) CHARACTERIZATION OF POLYMER STABILIZED COLLOIDAL SOLS WITH LIGHT SCATTERING UNIV OF PITTSBURGH	POST ALBERT	N 12 15/09/89 \$189,520	ULRICH 89-NC-413	
(CUR) MOLECULAR ELECTRONIC BASIS OF NONLINEAR OPTICAL BEHAVIOR IN POLYMERS, SQUAREINE DYES, AND POLYMERIZED SCUARAIMES UNIV OF CALIFORNIA	SCOTT GARY	N 12 15/09/89 \$222,905	ULRICH 89-NC-414	
(CUR) PREPARATION AND CHARACTERIZATION OF NEW HIGH-TEMPERATURE 8- TO 14 UM INFRARED-TRANSMITTING CHALCOGENIDE GLASSES ICMA STATE UNIV OF SCIENCE AND TECH	MARTIN STEVE	N 12 15/09/89 \$134,000	ULRICH 89-NC-415	
1990 GORDON CONFERENCE ON POLYMERS (WEST)		N 06 19/09/89 \$5,300	ULRICH 89-NC-417	
LEN ALMAGEN RESEARCH CENTER	FABOLT JOHN			
LADDER POLY (BIS(OACETYLENE)S)				
GEORGE WASHINGTON UNIVERSITY	HONEYCHUCK ROBERT	N 12 20/09/89 \$585,367	ULRICH 89-NC-418	
CONDUCTING POLYMERS IN ZEOLITE HOSTS - DESIGN OF ELECTRONIC STRUCTURES UNIV OF NEW MEXICO	SMITH THOMAS	N 12 20/09/89 \$192,516	ULRICH 89-NC-419	

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AN APPROACH TO FULLY CRYSTALLINE POLYPYTEROCYCLES FRANCIS UNIVERSITY	FOXMAN BRUCE	N 12 25/09/89 \$208,109	ULRICH 89-NC-420	
SYMPOSIUM ON BETTER CERAMICS THROUGH CHEMISTRY IV MATERIALS RESEARCH SOCIETY	CLARK DAVID	N 06 26/09/89 \$24,250	ULRICH 89-NC-421	
HIGH PRESSURE IMPEDANCE, INFRARED AND RAMAN SPECTROSCOPY STUDIES OF FAST IONIC CONDUCTING BORATE GLASSES CARNegie-MELON UNIVERSITY	HAMMACK WILLIAM	N 12 03/07/89 \$148,472	WILKES 89-NC-308	
APPLICATION OF PHOTOELECTRO-CHEMICAL IMPEDANCE SPECTROSCOPY FOR CHARACTERIZING ALKALINE BATTERY MATERIALS SRI INTERNATIONAL	MACDONALD D	N 12 17/07/89 \$102,761	WILKES 89-NC-317	
MICROCHEMISTRY AND IONIC MOTION OF ZrO2/8-ALUMINA COMPOSITE ELECTROLYTES UNIV OF WISCONSIN	HELLSTROM ERIC	N 12 27/07/89 \$98,450	WILKES 89-NC-324	
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES TEXAS A AND M UNIVERSITY	MARTIN CHARLES	R 12 30/08/89 \$130,401	WILKES 89-NC-357	
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES TEXAS A AND M UNIVERSITY	MARTIN CHARLES	R 12 06/09/89 \$130,401	WILKES 89-NC-363	
PRODUCT CHANNELS IN PHOTODECOMPOSITION OF SMALL MOLECULES SRI INTERNATIONAL	SLANGE TOM	N 12 05/07/89 \$145,928	WODARCZYK 89-NC-311	
FULSEC HE OVERTONE CHEMICAL LASER STUDIES, II PACIFIC APPLIED RESEARCH	WARRER, JR WALTER	N 12 31/07/89 \$245,346	A WODARCZYK 89-NC-329	\$260,574 01/11/89 \$495,892

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PHYSICAL CHEMISTRY OF ENERGETIC NITROGEN COMPOUNDS UNIV OF DENVER	COOMBE ROBERT	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-336	
SPECTROSCOPY AND DYNAMICS OF ENERGETIC AMINES UNIV OF DENVER	GILBERT JULANNA	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-337	
ELECTRONICALLY EXCITED MOLECULES: REACTICA KINETICS AND EMISSION OF LIGHT NANOSECOND INFRARED SPECTROSCOPY ELECTRONIC EMISSION FROM UNIV OF CALIFORNIA	MOORE C. BRADLEY	N 12 02/08/89 \$90,000	A WODARCZYK 89-NC-340	\$90,000 01/11/89 \$90,000
COMPLEMENTARY IR AND COHERENT RAMAN STUDIES OF MOLECULAR SOLVENTS UNIV OF OREGON	DYKE THOMAS	N 12 03/03/89 \$100,000	WODARCZYK 89-NC-341	
A STUDY OF THE COLLISIONAL EXCITATION OF UV-V EMISSION BY ENERGETIC ATMOSPHERIC SPECIES UNIV OF SOUTHERN CALIFORNIA	MUNTZ E. P.	N 12 14/08/89 \$0	WODARCZYK 89-NC-350	

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FUTURE RESEARCH DIRECTIONS IN CIRCUITS, SYSTEMS, AND SIGNAL PROCESSING UNIV OF ILLINOIS	VAN VALKENBURG M.	N 12 16/09/89 \$71,500	CRAIG 89-NE-339	
ORGANIZATION OF THE SECOND INTERNATIONAL CONFERENCE ON INDIUM PHOSPHIDE AND RELATED MATERIALS INST. OF ELECTRICAL & ELECTRONICS ENGRG	COUTTS TIMOTHY	N 10 18/08/89 \$5,000	CRAIG 89-NE-340	
OPTICAL INTERCONNECTS FOR A VISUAL PROCESSING SYSTEM UNIV OF CALIFORNIA, SAN DIEGO	GUEST CLARK	N 24 21/06/89 \$279,506	CRAIG 89-NE-342	
EFFICIENCY OF THE BROAD-BAND EMITTING MATERIALS COSTEN UNIVERSITY	LEMPICKI ALEXANDER	N 36 25/08/89 \$384,576	CRAIG 89-NE-345	
WORKSHOP ON OPTICAL NEURAL NETWORKS UNIV OF COLORADO	WAGNER KELVIN	N 06 07/09/89 \$22,570	CRAIG 89-NE-355	
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS FELLOWRE	ALSPECTOR JOSHUA	N 23 20/09/89 \$495,000	A CRAIG 89-NE-408	\$159,000 01/03/90 \$159,000
ELECTRONIC REALIZATION OF A HOPFIELD NET WITH SUPERVISED LEARNING SCHEME SOUTHERN ILLINOIS UNIVERSITY	HU C.L.J.	N 12 26/09/89 \$64,571	CRAIG 89-NE-414	
CONNECTIVIST LEARNING ALGORITHMS FOR TEMPORAL PROCESSING AND MULTI-SCALE SEARCH NORTHEASTERN UNIVERSITY	WILLIAMS RONALD	N 36 03/07/89 \$306,124	GILES 89-NE-309	
AN INFORMATIONAL THEORETIC APPROACH TO DISTRIBUTED INFERENCE AND LEARNING CALIFORNIA INSTITUTE OF TECHNOLOGY	GOODMAN RODNEY	N 28 05/07/89 \$340,000	A GILES 89-NE-311	\$148,858 01/10/89 \$340,000

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THERMODYNAMIC NEURAL NETWORK MODELS FOR HIGH-SPEED RESOURCE ALLOCATION UNIV OF MARYLAND	KANAL LAVEEN	N 36 11/07/89 \$283,266	GILES 89-NE-318	\$200,000 01/10/89 \$400,000
HARDWARE IMPLEMENTATIONS AND APPLICATIONS OF NEURAL NETWORK ARCHITECTURES JET PROPULSION LABORATORY	THAKOR A.P.	N 18 13/07/89 \$400,000	GILES 89-NE-320	
CONFERENCE OF CELLULAR AUTOMATA: THEORY AND EXPERIMENT	GUTOWITZ HOWARD	N 06 14/07/89 \$6,000	GILES 89-NE-321	
PROPOSAL FOR A COMPUTER AIDED DESIGN PACKAGE FOR DESIGNERS OF DIGITAL OPTICAL COMPUTERS FUTGERS - THE STATE UNIVERSITY	MURDOCCA MILES	N 36 17/07/89 \$791,894	GILES 89-NE-322	
DYNAMICS OF DISTRIBUTED COMPUTATION XEROX RESEARCH CENTER	HUBERMAN BERNARDO	N 24 18/07/89 \$265,707	GILES 89-NE-323	
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS SELLCORE	ALSPECTOR JOSHUA	N 23 18/07/89 \$5,198,230	GILES 89-NE-324	\$212,000 01/12/89 \$519,823
STUDY OF III-V OPTOELECTRONIC NEURAL BUILDING BLOCKS UNIV OF COLORADO	PANKOVE JACQUES	N 36 21/07/89 \$791,664	GILES 89-NE-326	
PULSE CODED BIOLOGICALLY MOTIVATED NEURAL-TYPE MCS CIRCUITS OFFICE OF NAVAL RESEARCH	LAU CLIFF	N 24 24/07/89 \$80,000	GILES 89-NE-327	\$40,000 01/10/89 \$80,000
ORGANIZATION OF 1990 MEETING OF INTERNATIONAL NEURAL NETWORK SOCIETY JOINTED WITH IEEE INTERNATIONAL NEURAL NETWORK SOCIETY	SZU HAROLD	N 12 02/08/89 \$10,000	GILES 89-NF-332	\$10,000 01/10/89 \$10,000

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEURAL NETWORK ARCHITECTURAL ANALYSIS NAVAL RESEARCH LABORATORY	SZU PAROLD	N 12 02/08/89 \$50,000	GILES 89-NE-333	
FEATURE EXTRACTION AND PROBLEM PARTICIPING FOR SCALING NEURAL- NETWORKS OREGON GRADUATE CENTER FOR STUDY & RESCH	LEEN TODD	N 12 07/08/89 \$172,220	GILES 89-NE-334	
AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	R 12 11/09/89 \$374,260	GILES 89-NE-336	
GAS-SOLID TRANSPORT DYNAMICS IN CHEMICAL VAPOR DEPOSITION UNIV OF GEORGIA	LEE M. HOWARD	N 36 10/07/89 \$156,462	LITTON 89-NE-315	
LASER PUMPING OF THE KINETICS AND DYNAMICS OF III-V SEMICONDUCTOR GROWTH UNIV OF COLORADO	LEONE STEPHEN	R 36 10/07/89 \$334,315	LITTON 89-NE-317	
KINETIC ASPECTS OF LATTICE MISMATCH IN MOLECULAR BEAM EPITAXIAL GROWTH ON PLAIN AND PATTERNED SUBSTRATES UNIV OF SOUTHERN CALIFORNIA	MADHUKAR ANUPAM	R 36 28/07/85 \$600,000	A LITTON 89-NE-329	\$200,000 01/12/89 \$600,000
ELECTRONIC STRUCTURE AND MECHANICAL PROPERTIES OF GRAIN BOUNDARIES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JOANADPOLLOS JOHN	R 36 01/08/89 \$449,500	LITTON 89-NE-331	
MRS SYMPOSIUM ON "IMPURITIES, DEFECTS, AND DIFFUSION IN SEMICONDUCTORS: BULK AND LAYERED STRUCTURES MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 12 28/08/89 \$5,000	LITTON 89-NE-346	
MRS SYMPOSIUM ON "PROPERTIES OF II-VI SEMICONDUCTORS: BULK CRY, EPITAXIAL FILMS, QUANTUM WELL STRUCTURES, & DILUTE MAGNETIC SYS MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 06 28/08/89 \$5,000	LITTON 89-NE-347	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INDIUM AND ANTIMONY BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES CALIFORNIA INSTITUTE OF TECHNOLOGY	PCGILL	R 36 28/08/89 \$765,416	LITTON 89-NE-348	
POST-NUCLEATION HETEROEPIITAXY IN POORLY LATTICE MATCHED SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMPSON CARL	R 36 28/08/89 \$505,690	LITTON 89-NE-349	
EVALUATION OF THE FEASIBILITY & THE COST OF HCCDTE EPITAXIAL LAYER GROWN BY MOLECULAR BEAM EPITAXY ON GaTe, CdZnTe & GaAs SUBSTRATE EPIR LTD.	FAURIE JEAN-PIERRE	N 06 31/08/89 \$39,312	A LITTON 89-NE-351	\$39,312 15/12/89 \$39,312
DECAY OF MOLECULES AT CORRUGATED SOLID SURFACES AND THIN FILMS FORTHAND STATE UNIVERSITY	LEUNG PUI-TAK	N 24 06/09/89 \$44,859	LITTON 89-NE-353	
RELAXATION IN COMPLEX SYSTEMS (CONFERENCE) NAVAL RESEARCH LABORATORY	NGAI K.	N 12 07/09/89 \$57,000	D LITTON 89-NE-354	
ELUCIDATION OF DMVPE GROWTH MECHANISMS UNIV OF UTAH	STRINGFELLOW GERALD	R 36 13/09/89 \$95,888	LITTON 89-NE-359	
A NEW OPTICAL-PROBING SYSTEM FOR VLSI TESTING USING PHASE MODULATION AND DIFFRACTION PATTERN PROBLING BEAMS UNIV OF WASHINGTON	YEE SINCLAIR	N 36 27/09/89 \$320,460	LITTON 89-NE-415	
INTERFACE PHENOMENA IN METAL MATRIX COMPOSITES CORNELL UNIVERSITY	RAJ RISHI	N 36 06/07/89 \$375,000	A ROSENSTEIN 89-NE-313	\$120,000 01/12/89 \$375,000
FUNDAMENTAL CONCEPTS RELATING LOCAL ATOMIC ARRANGEMENT, DEFORMATION AND FRACTURE OF INTERMETALLIC ALLOYS UNIV OF VIRGINIA	A. STARKE, JR. J. A. WERT & E.	R 36 07/07/89 \$415,384	A ROSENSTEIN 89-NE-314	\$134,939 01/01/90 \$419,894

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SOLID ELECTRODES (GEORGE WASHINGTON UNIVERSITY)	DE LEVIE	N 24 11/08/89 \$390,038	ROSENSTEIN 89-NE-337	
HYDROGEN DIFFUSION AND TRAPPING IN HIGH-STRENGTH LIGHTWEIGHT ALLOYS SRI INTERNATIONAL	POUNG	N 24 21/08/89 \$169,486	ROSENSTEIN 89-NE-343	
MICROSTRUCTURAL EFFECTS IN SILICIDE FILM GROWTH STATE UNIVERSITY OF NEW YORK	HARRIS	N 36 14/09/89 \$286,752	ROSENSTEIN 89-NE-362	
COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF BOUNDARY SCATTERING IN THIN CONDUCTORS HOWLING GREEN STATE UNIVERSITY	BOUGHTON	N 36 14/09/89 \$271,060	ROSENSTEIN 89-NE-363	
ALLOYING AND STRENGTH IN REFRACTORY BERYLLIDES STATE UNIVERSITY OF NEW YORK	CHAKI	N 36 14/09/89 \$306,382	ROSENSTEIN 89-NE-364	
NUCLEATION AND GROWTH OF NANOCCLUSERS WASHINGTON STATE UNIVERSITY	CROWE	N 36 14/09/89 \$750,000	ROSENSTEIN 89-NE-365	
EFFECT OF APB ENERGY AND SLIP VECTOR ON HIGH CYCLE FATIGUE IN INTERMETALLIC COMPOUNDS CARTMOUTH COLLEGE	BAKER	N 36 14/09/89 \$525,296	ROSENSTEIN 89-NE-367	
TRANSFORMATION AND DUCTILE-PHASE TOUGHENING IN GAMMA + BETA TI-AL-BASE ALLOYS CLEMSON UNIVERSITY	GRUJICIC	N 36 14/09/89 \$147,326	ROSENSTEIN 89-NE-369	
SURFACE AND SOLVEGE SEGREGATION AND THE INFLUENCE OF MAGNETISM SYRACUSE UNIVERSITY	DOWDEN	N 36 14/09/89 \$268,176	ROSENSTEIN 89-NE-370	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPCAL #	INITIATE START DATE TOT AMT
MICROSTRUCTURE EVOLUTION IN THE PRESENCE OF CONSTRAINTS AND ITS IMPLICATIONS ON THE PROPERTIES OF Mg-Li AND Ni-Al COMPOSITES UNIV OF CINCINNATI	SEKHAR	N 36 14/09/89 \$391,962	ROSENSTEIN 89-NE-371	
BRAIN BOUNDARY EFFECTS IN ORDERED INTERMETALLIC ALLOYS ILLINOIS INSTITUTE OF TECHNOLOGY	DOLLAR	N 36 14/09/89 \$424,976	ROSENSTEIN 89-NE-373	
RACTAL CHARACTERIZATION AND PREDICTION OF ALLMINIDE MICROSTRUCTURES USING DIGITAL IMAGE PROCESSING TENNESSEE TECHNOLOGICAL UNIVERSITY	HOY	N 36 14/09/89 \$271,095	ROSENSTEIN 89-NE-374	
MODEL DEVELOPMENT FOR SUBGRAIN GROWTH DURING RECOVERY IN AL, CU, NI, AND FE UNIV OF TEXAS	VARMA	N 36 14/09/89 \$447,201	ROSENSTEIN 89-NE-375	
THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SOLID ELECTRODES GEORGETOWN UNIVERSITY	CE LEVIE	N 36 14/09/89 \$390,038	ROSENSTEIN 89-NE-377	
USE OF PAYLEIGH WAVES FOR QUANTITATIVE EVALUATION OF SURFACE IRREGULARITIES UNIV OF PUERTO RICO	ALEMAR	N 36 14/09/89 \$162,360	ROSENSTEIN 89-NE-379	
A STUDY OF FLSSION ZONE MORPHOLOGY FOR METAL MATRIX COMPOSITES UNIV OF TENNESSEE / SPACE INSTITUTE	MCCAY	N 36 14/09/89 \$497,634	ROSENSTEIN 89-NE-380	
SCANNING TUNNELING MICROSCOPY AND PERFORMANCE MODIFIED SURFACES UNIV OF CONNECTICUT	OTTER	N 36 14/09/89 \$310,721	ROSENSTEIN 89-NE-381	
A MANUFACTURAL DESIGNING AND CHARACTERIZATION OF HIGH TEMP COMP MODULATED FILMS IN RELATION TO THE SUPERMODULUS EFFECT UNIV OF CALIFORNIA	ZAERA	N 36 14/09/89 \$305,537	ROSENSTEIN 89-NE-383	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THE EFFECT OF MICROSTRUCTURE AND ENVIRONMENT OF FATIGUE AND FRACTURE TOUGHNESS OF INTERMETALLIC TIBIAL SOUTHERN UNIV.--DEPT. OF MECHANICAL ENG.	MIRSPAHMS A. REZA	N 36 14/09/89 \$328,398	ROSENSTEIN 89-NE-385	
MICROSTRUCTURE EVOLUTION IN THE CORROSION/OXIDATION OF METAL ALLOY FILMS NORTHEASTERN UNIVERSITY	NOWAK WELVILLE	N 36 14/09/89 \$467,856	ROSENSTEIN 89-NE-387	
PROCESSING AND CHARACTERIZATION OF NANOCRYSTALLINE MATERIALS ICMA STATE UNIV OF SCIENCE AND TECH	CHUMBLEY LEONARD	N 36 14/09/89 \$507,735	ROSENSTEIN 89-NE-389	
THERMOPHYSICAL PROPERTIES OF LIQUID AND SOLID METALS AND SELECTED ALLOYS BY CONTAINERLESS LEVITATION METHODS RICE UNIVERSITY	MARGRAVE JOHN	N 36 14/09/89 \$607,679	ROSENSTEIN 89-NE-391	
DEPOSITION OF METALLIC THIN FILMS FROM THE DECOMPOSITION OF ORGANOMETALLIC COMPOUNDS SYRACUSE UNIVERSITY	SPENCER JAMES	N 36 14/09/89 \$698,214	ROSENSTEIN 89-NE-392	
STUDY OF NUCLEATION AND GROWTH RATES FOR THE PRODUCTION OF PARACULCULATE MATERIALS UNI/ OF ICMA	RETHAISCH DAVID	N 36 14/09/89 \$460,696	ROSENSTEIN 89-NE-393	
MECHANICAL BEHAVIOR AND FLOW MECHANISMS IN TAILORED REFRACTORY METAL COMPOSITES WRIGHT STATE UNIVERSITY	WEISS ISAAC	N 36 14/09/89 \$461,291	ROSENSTEIN 89-NE-394	
THERMOMECHANICAL PROCESS DESIGN AND OPTIMIZATION FOR AERCSPACE MATERIALS UNIV OF MISSOURI	EL-GIZAWY AHMED SHERIF	N 36 14/09/89 \$187,150	ROSENSTEIN 89-NE-395	
EXPERIMENTAL AND THEORETICAL STUDIES OF MATRIX-FIBER INTERFACES IN LOW & HIGH TEMP COMP USING ATOMIC FORCE & SCANNING TUNNELING MICRO UNIV OF MISSOURI	C. QUINTON BOWLES	N 36 14/09/89 \$510,101	ROSENSTEIN 89-NE-396	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
KNOWLEDGE BASED SYNTHESIS OF MICROSTRUCTURES CREXEL UNIVERSITY	APELIAN CIRAN	N 36 14/09/89 \$750,000	ROSENSTEIN 89-NE-397	
SIE PROCESSED MICROSTRUCTURES USING REFRACTORY SILICIDES FOR PIEZOELECTRIC SENSORS AND ACTUATORS NEW JERSEY INSTITUTE OF TECHNOLOGY	A, MISRA CURGAMADHAB MIS	N 36 20/09/89 \$200,735	ROSENSTEIN 89-NE-407	
MICROMECHANISMS OF MONOTONIC AND CYCLIC SUBCRITICAL CRACK GROWTH IN ADVANCED HIGH MELTING POINT LOW-DUCTILITY INTERMETALLICS UNIV OF CALIFORNIA	RITCFIE ROBERT	N 36 25/09/89 \$537,955	ROSENSTEIN 89-NE-412	
IMPACT BEHAVIOR OF FIBER REINFORCED CERAMIC COMPOSITES UNIV OF WYOMING	COON DENNIS	N 36 27/09/89 \$375,000	ROSENSTEIN 89-NE-416	
THERMODYNAMIC AND KINETIC STABILITY OF REFRACTORY MATERIALS AT ULTRA-HIGH TEMPERATURES NATIONAL INST. OF STANDARDS & TECHNOLOGY	HASTIE JOHN	N 36 13/09/89 \$375,000	SCHICLER 89-NE-358	
CHEMICAL VAPOR DEPOSITION OF ZRTO4 COATINGS FOR OXIDATION PROTECTION OF CARBON/CARBON COMPOSITES LOUISIANA STATE UNIVERSITY	GRIFFIN GREGORY	N 36 14/09/89 \$214,009	SCHICLER 89-NE-366	
SILICON NITRIDE THIN FILMS FOR PASSIVATION OF AL BONCPADS UNIV OF ARKANSAS	ULRICH RICHARD	N 36 14/09/89 \$259,702	SCHICLER 89-NE-368	
STATISTICAL METHODS FOR MICROSTRUCTURE CHARACTERIZATION USING ULTRASONIC SCATTERING ILLINOIS INSTITUTE OF TECHNOLOGY	SANIE JAFAR	N 36 14/09/89 \$299,124	SCHICLER 89-NE-372	
MICROSTRUCTURAL DESIGN, SYNTHESIS AND PROCESSING OF ADVANCED CERAMIC MATERIALS UNIV OF NOTRE DAME	MILLER ALBERT	N 36 14/09/89 \$687,780	SCHICLER 89-NE-377	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/AMOUNTS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COLLOIDAL PROCESSING OF ALUMINUM NITRIDE CERAMICS: USE OF STERIC STABILIZATION TO CONTROL MICROSTRUCTURE CASE WESTERN RESERVE UNIVERSITY	FEKE	N 36 14/09/89 \$123,222	SCHIDLER 89-NE-378	
BASIC STUDIES IN CERAMIC DIELECTRICS FOR MICROWAVE APPLICATIONS NEW YORK STATE COLLEGE OF CERAMICS	MCHALE	N 36 14/09/89 \$187,109	SCHIDLER 89-NE-382	
THE DESIGN, PREPARATION AND DEVELOPMENT OF NEW REFRACTORY AND CERAMIC THIN-FILM MATERIALS SYRACUSE UNIVERSITY	SPENCER	N 36 14/09/89 \$606,026	SCHIDLER 89-NE-384	
CHARACTERIZATION OF MECHANICAL BEHAVIOR OF CERAMICS UNDER QUASI-STATIC AND DYNAMIC LOADINGS UNIV OF OKLAHOMA	KHAN	N 36 14/09/89 \$452,698	SCHIDLER 89-NE-386	
ELECTRON CYCLOTRON RESONANCE PLASMA DEPOSITION OF ADVANCED ELECTRONIC MATERIALS ARIZONA STATE UNIVERSITY	RAUFF	N 36 14/09/89 \$504,772	SCHIDLER 89-NE-388	
QUANTITATIVE STUDY OF MICROSTRUCTURAL DAMAGE AND ITS INFLUENCE ON FESICUAL STRENGTHS OF CARBON-CARBON COMPOSITES CLARKSON UNIVERSITY	YORGARTIS	N 36 14/09/89 \$303,234	SCHIDLER 89-NE-390	
PHOTO-ELECTROIC GRAIN BOUNDARY EFFECTS IN CERAMICS NEW YORK STATE COLLEGE OF CERAMICS	CORRAPO	N 36 15/09/89 \$397,002	SCHIDLER 89-NE-398	
SOI-GEL PROCESSING OF THIN-FILM LEAD GERMANATE FERROELECTRICS TUFTS UNIVERSITY	RYDER, JR.	N 36 15/09/89 \$318,991	SCHICLER 89-NE-399	
GROWTH AND CHARACTERIZATION OF PEROVSKITE MIXED CRYSTALS LOUISIANA STATE UNIVERSITY	TEMPLE	N 36 15/09/89 \$177,065	SCHIDLER 89-NE-400	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PREPARATION AND PROPERTIES OF CERAMIC-METAL COMPOSITES (COLORADO SCHOOL OF MINES)	READEY DENNIS	N 37 15/09/89 \$511,333	SCHIDLER 89-NE-401	
ON THE DEGRADATION OF ELECTRICAL PROPERTIES OF SEMICONDUCTORS UNIV OF CONNECTICUT	GALLIGAN JAMES	N 36 15/09/89 \$239,295	SCHIDLER 89-NE-402	
PRESSURELESS SINTERING OF CERAMIC COMPOSITES UNIV OF NEW MEXICO	WEISER MARTIN	N 36 15/09/89 \$146,426	SCHIDLER 89-NE-403	
OPTICAL ANALYSIS OF SURFACE PROCESSES IN CHEMICAL VAPOR DEPOSITION STEVENS INSTITUTE OF TECHNOLOGY	WHITTAKER EDWARD	N 36 15/09/89 \$293,093	SCHIDLER 89-NE-404	
PRESSURELESS CENSIFICATION OF CERAMIC MATRIX COMPOSITES UNIV OF MISSOURI	RAHMAN MOHAMED	N 36 15/09/89 \$542,757	SCHIDLER 89-NE-405	
INHIBITING THE OXIDATION OF CARBON BY ELECTROCHEMICAL INTERCALATION OF BROMINE STATE UNIVERSITY OF NEW YORK	L. CHUNG DEBORAH	N 36 15/09/89 \$667,658	SCHIDLER 89-NE-406	
SUPERCOMPUTER TIME AT KIRTLAND AFB AIR FORCE WEAPONS LAB	KURTH ALLEN	N 09 21/09/89 \$30,000	A SCHIDLER 89-NE-410	\$30,000 01/10/89 \$30,000
HIGH TEMPERATURE OXICATION MECHANISMS AND KINETICS OF REFRACTORY CARBIDES JOHNS HOPKINS UNIVERSITY	BARGERON C.B.	N 36 27/09/89 \$127,600	SCHIDLER 89-NE-417	
SUPERCONDUCTING WEISSNER EFFECT BEARINGS FOR CRYPTENIC TURBOMACHINES CPREARE INC. RESEARCH & DEVELOPMENT INC	IANNELLO VICTOR	N 24 10/07/89 \$495,994	A WEINSTOCK 89-NE-316	\$0 01/11/89 \$249,997

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MAGNETIC AND ELECTRIC PROPERTIES OF UNIQUE LIQUID AND SOLID COMPOSITES CLARKSON UNIVERSITY	ARAJI SIGURDS	N 36 07/08/89 \$240,843	D WEINSTOCK 89-NE-335	
MICROWAVE NONDESTRUCTIVE TESTING: A NUMERICAL AND EXPERIMENTAL EFFORT COLORADO STATE UNIVERSITY	ZOUGHI R.	N 12 16/08/89 \$61,438	D WEINSTOCK 89-NE-338	
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD KURT	N 36 21/08/89 \$151,573	D WEINSTOCK 89-NE-341	
BASIC OPTICAL STUDIES OF HIGH TC OXIDE SUPERCONDUCTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GRESSELHAUS MILORED	N 36 21/08/89 \$375,000	A WEINSTOCK 89-NE-344	\$125,000 15/01/90 \$375,000
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD KURT	N 36 28/08/89 \$148,485	WEINSTOCK 89-NE-350	
SYNTHESIS AND STUDY OF HIGH TC MATERIALS FOR SUPERCONDUCTING ELECTRONICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	TEDRON PAUL	N 36 21/08/89 \$404,998	A WEINSTOCK 39-NE-352	\$134,998 15/12/89 \$404,998
USE OF HIGH TC SUPERCONDUCTING MATERIALS IN MAGNETIC BEARINGS UNIV OF COLORADO	BARNES FRANK	N 36 13/09/89 \$620,332	D WEINSTOCK 89-NE-357	
PHYSICS AND TECHNIQUES FOR THE INVESTIGATION OF THE PROPERTIES OF ULTRA SMALL SYSTEMS CORNELL UNIVERSITY	PARPIA J.	R 24 21/09/89 \$190,000	A WEINSTOCK 89-NE-409	\$100,000 15/01/90 \$190,000
QUASIOPTICAL JOSEPHSON OSCILLATOR UNIV OF ROCHESTER	WENGLER MICHAEL	N 36 25/09/89 \$3,000,000	WEINSTOCK 89-NE-413	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FEMTOSECOND CARRIER PROCESSES IN COMPOUND SEMICONDUCTORS AND REAL TIME SIGNAL PROCESSING (CORNELL UNIVERSITY	J KRUSIUS	R 36 05/07/89 \$1,849,830	WITT 89-NE-312	
JOINT SERVICES ELECTRONICS PROGRAM SUPPORT OF THE BASIC RESEARCH PROGRAM AT THE ELECTRONICS RESEARCH LABORATORY UNIV OF CALIFORNIA	HU CHEMMING	R 36 28/07/89 \$2,626,033	WITT 89-NE-330	
ULTRAFAST CARRIER DYNAMICS IN III-V SEMICONDUCATORS MICROSTRUCTURES NEW YORK UNIVERSITY	ALFANO ROBERT	R 36 13/09/89 \$572,761	WITT 89-NE-361	
CLASS E RECTIFIERS AND THEIR APPLICATIONS IN DC/DC CONVERTERS WRIGHT STATE UNIVERSITY	KAZIMIERCZUK MARIAN	N 24 25/09/89 \$140,288	WITT 89-NE-411	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE STARTY DATE TGT AMT
10TH INTERNATIONAL BIOPHYSICS CONGRESS BIOPHYSICAL SOCIETY	EISENMAN GEORGE	N 12 10/07/89 \$10,000	BERRY 89-NL-299	
INTERNEURONAL INFORMATION PROCESSING CORNELL UNIVERSITY	GARDNER CANIEL	N 36 10/07/89 \$395,585	BERRY 89-NL-290	
DYNAMICS IN IN VIVO COPOLYMER RELEASE UNIV OF NORTH CAROLINA	WIGHTMAN MARK	N 36 28/07/89 \$308,584	BERRY 89-NL-297	
MOLECULAR & CELLULAR MECHANISMS OF ALCOHOL & ANESTHETICS NEW YORK ACADEMY OF SCIENCES	RUBIN EMANUEL	N 12 09/08/89 \$10,000	BERRY 89-NL-301	
EXTRATHALAMIC MODULATION OF CORTICAL RESPONSIVENESS UNIV OF CALIFORNIA	FOLTE STEPHEN	R 36 12/09/89 \$542,799	BERRY 89-NL-317	
TYROSINE, TRYPTOPHAN, AND PERFORMANCE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WURTMAN RICHARD	P 36 25/09/89 \$507,444	BERRY 89-NL-324	
EVALUATION OF HYPERBARIC OXYGEN THERAPY IN THE TREATMENT OF SPINAL CORD INJURY USING THE RABBIT SPINAL STROKE MODEL ARMED FORCES INSTITUTE OF PATHOLOGY	HARRISON CHARLES	N 12 11/08/89 \$15,746	A CERVENY 89-NL-303	\$15,746 30/09/89 \$15,745
MICROORGANISMS FROM EXTREME ENVIRONMENTS TO DEGRADE HALOGENATED SOLVENTS U. K. RESEARCH	COMBIE JOAN	N 24 25/09/89 \$201,460	CERVENY 89-NL-321	
4TH INTERNATIONAL SYMPOSIUM ON BIOLOGICAL REACTIVE INTERMEDIATES UNIV OF ARIZONA	SIPES GLENN	N 12 25/09/89 \$10,000	CERVENY 89-NL-322	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PRODUCTION OF REACTIVE OXYGEN SPECIES BY POLYHALOGENATED CYCLIC HYDROCARBONS (POCH) YERKESON UNIVERSITY	STICH	N 36 25/09/89 \$297,095	CERVENY 89-NL-323	
IRRATIONALITIES VERSUS MISINTERPRETATIONS FORMAL VERSUS PSYCHOLOGICAL STRUCTURE OF THE DECISION SPACE BROWN UNIVERSITY	ADAMS	N 36 07/07/89 \$335,781	FREGLY 89-NL-294	
AUTOMATICITY AND CONTROL IN COGNITIVE PROCESSING PENNSYLVANIA UNIVERSITY OF THE NEGEE	TZELGOV	N 36 07/07/89 \$105,650	FREGLY 89-NL-285	
VISUAL PERCEPTION OF FEATURES AND OBJECTS UNIV OF CALIFORNIA	TREISMAN	R 36 07/07/89 \$525,198	FREGLY 89-NL-287	
PERCEPTIVE AND ATTENTIVE VISUAL INFORMATION PROCESSING JOHNS HOPKINS UNIVERSITY	EGETH	R 48 07/07/89 \$507,449	FREGLY 89-NL-234	
LEARNING FROM TEXT: A COGNITIVE CONTROL PERSPECTIVE WASHINGTON STATE UNIVERSITY	WHITNEY	N 36 27/07/89 \$228,677	FREGLY 89-NL-294	
FORGETTING IN WORKING MEMORY COLUMBIA UNIVERSITY	COSHER	N 36 27/07/89 \$302,079	FREGLY 89-NL-295	
LANGUAGE PRODUCTION FROM VARYING MEMORY SOURCES UNIV OF MASSACHUSETTS	ROSENBAUM	N 36 27/07/89 \$233,763	FREGLY 89-NL-296	
INVESTIGATION OF THE SPREAD OF ATTENTION IN THE VISUAL FIELD UNIV OF CALIFORNIA	LABERGE	N 36 31/07/89 \$287,083	FREGLY 89-NL-299	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TOWARDS AN INTEGRATION OF THE NON-INVASIVE NEUROSCIENCE: THE ELEVENTH CARMEL WORKSHOP UNIV OF ILLINOIS	CONCFIN EMANUEL	N 06 11/08/89 \$47,313	A FREGLY 89-NL-302	\$25,000 15/11/89 \$25,000
GUIDANCE OF HUMAN VISUAL ATTENTION BY PARALLEL PROCESSING MODULES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WOLFE JEREMY	N 36 11/08/89 \$425,673	FREGLY 89-NL-304	
A THEORY FOR LEARNING FROM EXAMPLES DEPPSIA INSTITUTE OF TECH	CATRAMBONE RICHARD	N 24 11/09/89 \$107,723	FREGLY 89-NL-305	
TOWARD A UNIFIED CODING ACCOUNT OF COMPATIBILITY PHENOMENA ELIPOLE RESEARCH FOUNDATION	PROCTOR ROBERT	N 36 11/08/89 \$382,034	FREGLY 89-NL-306	
RECOGNIZING LETTERS AND OBJECTS: PRIMING, TIME COURSE, AND RELATIONAL FEATURES UNIV OF SOUTH FLORIDA	SANOCKI THOMAS	N 36 11/08/89 \$198,636	FREGLY 89-NL-307	
THE ROLE OF MICRO FREQUENCY AND THE PROPER/Common DIMENSION IN SPEECH PASKIN LABORATORIES, INC.	WHALEN DOUGLAS	N 36 11/08/89 \$290,825	FREGLY 89-NL-308	
THE EFFECTS OF STRESS ON JUDGMENT AND DECISION MAKING IN DYNAMIC TASKS UNIV OF COLORADO	PAMMCNO KENNETH	N 24 25/08/89 \$350,342	FREGLY 89-NL-309	
THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON ATTENTION AND PERFORMANCE: A SILVER JUBILEE UNIV OF MICHIGAN	KORNELUM SYLVAN	N 24 25/08/89 \$23,368	A FREGLY 89-NL-311	\$23,368 01/10/89 \$23,368
CONFERENCE ON EYE MOVEMENTS AND VISUAL COGNITION UNIV OF MASSACHUSETTS	RAYNER KEITH	N 12 25/08/89 \$13,150	A FREGLY 89-NL-312	\$13,150 01/01/90 \$13,150

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NEURAL MECHANISMS MEDIATING VISUAL SELECTIVE ATTENTION LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	AINE CHERYL	N 36 05/09/89 \$397,800	FREGLY 89-NL-316	\$45,689 01/02/90 \$92,645
COMMITTEE ON BASIC RESEARCH ON HUMAN FACTORS NATIONAL ACADEMY OF SCIENCES	VAN COTT HAROLD	N 08 18/09/89 \$45,689	A FREGLY 99-NL-320	
SIGNAL-AND LISTENER-BASED FACTORS IN COMPLEX AUDITORY PATTERN PERCEPTION YALE UNIVERSITY	SAMUEL ARTHUR	R 60 07/07/89 \$796,586	TANGNEY 89-NL-286	
REFERENCE FRAMES IN VISION UNIV OF ROCHESTER	FAYHCE MARY	N 36 10/07/89 \$470,370	TANGNEY 89-NL-291	
VISUAL PERCEPTION OF OBJECT MOTION DURING EYE AND SELFMOVEMENTS INSTITUTE FOR PERCEPTION RVO-TNC	WERTHEIM A	N 36 10/07/89 \$144,000	TANGNEY 89-NL-292	
COMPUTATIONAL MODEL OF AUDITORY PROCESSING LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	SINEX DONAL	N 36 28/07/89 \$411,442	TANGNEY 89-NL-298	
DIGITAL THEORY OF AUDITORY PATTERN RECOGNITION MARQUETTE UNIVERSITY	GUASTELLO STEPHEN	N 36 08/08/89 \$203,193	TANGNEY 89-NL-300	
THE APPEARANCE OF TEMPORALLY-MODULATING AND STATIONARY STEREO PATTERNS STATE UNIVERSITY OF NEW YORK - PSCH FCN	DAVIS ELIZABETH	N 50 25/08/89 \$524,466	TANGNEY 89-NL-310	
MECHANISMS OF SPATIAL LOCALIZATION FOR AIMED MOVEMENTS WASHINGTON UNIVERSITY	ABRAMS RICHARD	N 60 01/09/89 \$435,896	TANGNEY 89-NL-313	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MECHANISMS OF VISUAL SURFACE FORMATION, MODULATION, AND PERCEPTION (CONTRIBUTION OF INFORMATION FROM THE MECHANISMS OF MOTION & STEREO UNIV OF NEVADA)	HARRINGTON THOMAS	N 60 01/09/89 \$1,709,442	TANGNEY 89-NL-314	
SUPPORT OF THE ACTIVITIES OF THE COMMITTEE ON HEARING, BIOACOUSTIC & AND BIOMECHANICS OFFICE OF NAVAL RESEARCH	O'HARE JOHN	N 12 01/09/89 \$30,000	TANGNEY 89-NL-315	
SUSTAINED ATTENTION IN MILITARY PERSONNEL DURING A COGNITIVELY DEM ANDING VIGILANCE TASK UNIV OF ALABAMA	TOMPCROWSKI PHILIP	N 12 12/09/89 \$9,263	TANGNEY 89-NL-318	
WHAT GOVERNS THE PRECISION OF NEURAL COMPUTATIONS RESPONSIBLE FOR HUMAN SPATIAL DISCRIMINATIONS YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH JOY	R 36 12/09/89 \$734,031	TANGNEY 89-NL-319	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EVALUATION OF BOOTSTRAP AND PARAMETRIC STATISTICAL ANALYSIS OF PERCENTILE CONTRASTS INDIANA UNIVERSITY-PURDUE UNIV AT INDFLS	RASMUSSEN JEFFREY	N 08 17/07/89 \$25,452	BAROUCH 89-NM-658	
NEW FREQUENCY DOMAIN APPROACHES FOR MODELLING SYSTEMS AND SIGNALS UNIV OF RHODE ISLAND	KUMARESAN RAMDAS	N 36 17/07/89 \$217,151	BAROUCH 89-NM-659	
STATISTICAL TECHNIQUES FOR SIGNAL PROCESSING UNIV OF PENNSYLVANIA	KASSAM SALEEM	N 36 26/07/89 \$232,118	A BAROUCH 89-NM-664	\$71,398 01/11/89 \$232,118
NEED-RELATED METHODOLOGIES FOR ESTIMATING MEASURES OF RELIABILITY/ MAINTAINABILITY AND RELIABILITY OHIO STATE UNIV OF SCIENCE AND TECH	CAVIC P.	N 24 02/08/89 \$245,771	BAROUCH 89-NM-666	
COMPUTATION AND COMMUNICATION CONSTRAINTS FOR DISTRIBUTED ESTIMATION SYSTEMS UNIV OF WISCONSIN	GURNER JOHN	N 24 30/08/89 \$44,080	BAROUCH 89-NM-691	
DYNAMIC MODELING OF JOINT LIFETIMES, OF AGING NOTIONS, OF MARGINALIZATION AND OF MULTI-UNIT MINIMAL REPAIRS UNIV OF ARIZONA	SHAKED MOSHE	R 36 06/09/89 \$254,923	BAROUCH 89-NM-697	
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH DAMPING UNIV OF VIRGINIA	LASIECKA IRENA	R 12 17/07/89 \$100,976	CROWLEY 89-NM-650	
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS UNIV OF WISCONSIN	AGRAWAL RAJEEV	N 24 17/07/89 \$100,270	CROWLEY 89-NM-654	
ROBUST OUTPUT FEEDBACK CONTROL OF NONLINEAR SYSTEMS MICHIGAN STATE UNIVERSITY	KHALIL PASSAN	N 24 08/08/89 \$153,902	D CROWLEY 89-NM-671	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
GENERALIZED PREDICTIVE CONTROL OF NONLINEAR DYNAMIC SYSTEMS UNIV OF CALIFORNIA	MESS RONALD	N 24 21/08/89 \$62,938	D CROWLEY 89-NM-694	
GEOMETRY AND TOPOLOGY OF LINEAR SYSTEMS UNIV OF ROCHESTER	GUEST MARTIN	N 36 06/09/89 \$88,559	D CROWLEY 89-NM-694	
OPTIMIZATION: THEORY AND APPLICATIONS TO DYNAMIC CONTROL SPACE STRUCTURES UNIV OF MICHIGAN	MEERKOV SEMYON	N 24 06/09/89 \$105,000	D CROWLEY 89-NM-695	
DESIGNS AND ESTIMATORS FOR ADAPTIVE CONTROLLERS WITH ROBUST PERFORMANCE BRICZNA STATE UNIVERSITY	TSAKALIS KONSTANTINOS	N 36 06/09/89 \$283,006	CROWLEY 89-NM-696	
ESTIMATION OF COEFFICIENTS IN DISTRIBUTED PARAMETER SYSTEMS TECHNISCHE UNIVERSITÄT OF GRAZ	KUNISCH KARL	N 36 25/09/89 \$57,571	CROWLEY 89-NM-710	
DISTRIBUTED TARGET DETECTION AND TRACKING NORTHWESTERN UNIVERSITY	HADDAD ABRAHAM	R 36 25/09/89 \$370,367	CROWLEY 89-NM-712	
NEW TRENDS IN CONTROL SYSTEM DESIGN UNIV OF MINNESOTA	LEE E.	N 12 27/09/89 \$10,000	CROWLEY 89-NM-717	
SOLVING DISCRETE OPTIMIZATION PROBLEMS USING INTERICE POINT METHODS UNIV OF PENNSYLVANIA	ANADALINCA G.	N 20 17/07/89 \$124,281	GLASSMAN 89-NM-655	
GLOBAL SOLUTIONS TO EXPLICITLY AND IMPLICITLY DEFINED OPTIMIZATION PROBLEMS GEORGE WASHINGTON UNIVERSITY	FALK JAMES	N 36 24/07/89 \$284,737	GLASSMAN 89-NM-661	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SPECIAL-CASE ALGORITHMS FOR RECTILINEAR STEINER MINIMAL TREES UNIV OF VIRGINIA	COHOCN J.	N 36 24/07/89 \$2,187,475	GLASSMAN 89-NM-662	
POLYHEORAL APPROACHES FOR SOLVING 0-1 POLYNOMIAL PROGRAMMING PROBLEMS CLEMSON UNIVERSITY	ADAMS WARREN	N 36 08/08/89 \$205,332	GLASSMAN 89-NM-659	
COMBINATORIAL OPTIMIZATION BY LEARNING STOCHASTIC AUTOMATA UNIV OF MINNESOTA	SHRAGOWITZ EUGENE	N 36 08/08/89 \$245,213	GLASSMAN 89-NM-672	
STUDIES IN INTEGER PROGRAMMING AND MODELING SYSTEMS UNIV OF CALIFORNIA	GEOFFRION ARTHUR	N 12 08/08/89 \$15,974	GLASSMAN 89-NM-573	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION NATIONAL INST. OF STANDARDS & TECHNOLOGY	BOGGS PAUL	N 12 09/08/89 \$41,000	A GLASSMAN 89-NM-574	\$41,000 01/10/90 \$41,000
UD VADIS GRAPH THEORY AN ALASKA CONFERENCE ON THE FLTURE OF GRAPG THEORY UNIV OF ALASKA	GIMBEL JOHN	N 01 14/08/89 \$34,097	A GLASSMAN 89-NM-676	\$15,000 01/01/90 \$15,000
PARALLEL AND LARGE-SCALE OPTIMIZATION GEORGE WASON UNIVERSITY	NASH STEPHEN	N 36 21/08/89 \$244,632	GLASSMAN 89-NM-680	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON	N 12 21/08/89 \$55,240	A GLASSMAN 89-NM-681	\$55,240 01/01/90 \$55,240
EFFICIENT ALGORITHMIC TECHNIQUES FOR COMBINATORIAL PROBLEM (REVISED) PURDUE RESEARCH FOUNDATION	ATALLAH MIKHAIL	N 36 21/08/89 \$281,989	A GLASSMAN 89-NM-682	\$32,241 01/01/90 \$279,989

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SECOND ASILOMAR WORKSHOP ON PROGRESS IN MATHEMATICAL PROGRAMMING SOCIETY FOR INDUSTRIAL & APPLIED MATH	BLOCK	N 01 25/08/89 \$15,000	A GLASSMAN 89-NM-689	\$15,000 01/12/89 \$15,000
THEORY AND METHODS FOR LINEAR PROGRAMMING BASED ON INTERIOR-POINTS AND CENTERING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FREUND	N 24 30/08/89 \$202,246	GLASSMAN 89-NM-693	
NEW DIRECTIONS IN NETWORK FLOWS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ORLIN	R 01 15/09/89 \$95,954	A GLASSMAN 89-NM-703	\$86,347 01/01/90 \$86,347
GENERIC ALGORITHMS FOR HARD OPTIMIZATION PROBLEMS UNIV OF NORTH CAROLINA	MICHALEWICZ	N 24 21/09/89 \$130,590	GLASSMAN 89-NM-706	
USING INTERIOR POINT METHODS IN A CUTTING PLANE APPROACH FOR SOLVING INTEGER PROGRAMMING PROBLEMS FORSYTHE POLYTECHNIC INSTITUTE	MITCHELL	N 36 21/09/89 \$201,490	GLASSMAN 89-NM-706	
THE PARALLEL COMPUTATION OF RECURRENCE EQUATIONS WITH AFFINE DEPENDENCES YALE UNIVERSITY	IPSEN	N 36 14/08/89 \$286,192	HOLLAND 89-NM-677	
PARALLEL SOLUTION OF LARGE SYSTEMS OF EQUATIONS PENNSYLVANIA STATE UNIVERSITY	BARLOW	N 36 15/09/89 \$245,211	HOLLAND 89-NM-702	
EVENT ORIENTED DESIGN AND ADAPTIVE MULTITASKING TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LEFKOVITZ	R 24 21/09/89 \$224,591	HOLLAND 89-NM-704	
CONFERENCE ON EXPERT SYSTEMS FOR NUMERICAL COMPUTING PURDUE RESEARCH FOUNDATION	RICE	N 12 25/09/89 \$10,556	HOLLAND 89-NM-709	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
EFFICIENT NUMERICAL METHODS FOR INVERSE SCATTERING PROBLEMS OF GENERAL MAXWELL'S EQUATIONS STATE UNIVERSITY OF NEW YORK	CHEN	N 24 12/07/89 \$216,031	NACHMAN 89-NM-649	\$20,284 01/01/90 \$64,369
PLASTIC DEFORMATION OF GRANULAR MATERIAL STATE UNIVERSITY OF NEW YORK	PITMAN	N 36 17/07/89 \$64,369	A NACHMAN 89-NM-652	
RESEARCH IN THE MATHEMATICAL ASPECTS OF SCIENTIFIC COMPUTING UNIV OF CHICAGO	CUPONT	N 36 17/07/89 \$738,832	NACHMAN 89-NM-653	
COMPUTATIONAL FLUID DYNAMICS, MECHANICS AND MATHEMATICS AT THE UNIV OF PITTSBURGH	HALL	R 36 17/07/89 \$713,171	A NACHMAN 89-NM-655	\$118,017 01/12/89 \$373,427
THEORETICAL AERODYNAMICS RENSSELAER POLYTECHNIC INSTITUTE	COLE	R 12 17/07/89 \$80,496	A NACHMAN 89-NM-657	\$90,496 01/11/89 \$90,496
NON-LINEAR MATHEMATICS APPLIED TO THE SCIENCE OF MATERIALS CARNEGIE-MELLON UNIVERSITY	GURTIN	N 36 24/07/89 \$971,357	NACHMAN 89-NM-650	
SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV PROCESSES BY CANONICAL VARIATE ANALYSIS BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE	R 24 02/08/89 \$465,327	NACHMAN 99-VP-665	
SOME TOPICS IN SOLITON MATHEMATICS, TRANSMUTATION & INVERSE PROBLEMS UNIV OF ILLINOIS	CARRILL	N 36 02/09/89 \$115,859	NACHMAN 89-NM-667	
TECHNIQUES USED TO IDENTIFY INSTABILITIES IN LINEAR WAVE PROPAGATION PROBLEMS CLAREMONT GRADUATE SCHOOL	CUMBERBATCH	N 14 08/08/89 \$84,748	NACHMAN 89-NM-670	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FORMATION AND STATISTICAL DESCRIPTION OF THREE-DIMENSIONAL SINGULARITIES IN TURBULENT FLOWS UNIV OF CALIFORNIA, SAN DIEGO	NOVIKOV	N 36 08/08/89 \$454,732	NACHMAN 89-NM-675	\$111,633 30/12/89 \$1,356,143
MULTIVARIABLE CONTROL FOR FLEXIBLE IC PROCESSING STANFORD UNIVERSITY	KAILATI	N 33 21/08/89 \$500,000	A NACHMAN 89-NM-679	
INVERSE SCATTERING: THEORY AND APPLICATIONS NORTHEASTERN UNIVERSITY	DEVANEY	N 36 21/08/89 \$375,667	NACHMAN 89-NM-683	
CENTER FOR ANALYSIS OF HETEROGENEOUS AND NONLINEAR MEDIA NEW YORK UNIVERSITY	KOHN	R 36 22/08/89 \$150,000	A NACHMAN 89-NM-686	\$500,000 01/01/90 \$1,500,000
POPULAR OPTICS AND TURBULENCE UNIV OF ARIZONA	NEWELL	N 36 24/08/89 \$1,667,729	A NACHMAN 89-NM-587	\$507,000 01/10/89 \$1,500,000
ACCELERATION OF CHERYSHEV SPECTRAL APPROXIMATIONS OF HYPERBOLIC EQUATIONS TO STEADY STATE FLOPICA STATE UNIVERSITY	KOPRIVA	N 24 24/08/89 \$82,753	NACHMAN 89-NM-688	
TRAY II SUPPORT FOR OTHER 2204/A3 INSTRUMENTS AIR FORCE WEAPONS LAB	BURNETTE	N 01 29/08/89 \$10,000	A NACHMAN 89-NM-690	\$10,000 01/10/89 \$10,000
ON THE TURBULENT DYNAMICS GEORGIA TECH RESEARCH CORPORATION	FOX	N 36 30/08/89 \$168,452	NACHMAN 89-NM-692	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE PROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, INC.	VITEPEI	N 12 06/09/89 \$157,761	A NACHMAN 89-NM-698	\$75,000 01/12/89 \$157,761

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STATUS
PROGRAM MANAGER
PROPOSAL #

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INVESTIGATOR

THE ASYMPTOTIC THEORY OF THE REFLECTION AND TRANSMISSION OF A
PULSED ELECTROMAGNETIC BEAM FIELD AT A PLANAR INTERFACE SEPARATING
UNIV OF VERMONT

R 05
21/09/89
\$43,713

A
NACHMAN
89-NM-707

SPARSE MATRIX ALGORITHMS FOR PARALLEL COMPUTERS

R 36
25/09/89
\$240,679

NACHMAN
89-NM-713

PENNSYLVANIA STATE UNIVERSITY

ALEX

POTHEN

ELECTRIC FUNCTIONS AND THE ELECTROMAGNETIC WAVE PROPAGATION IN
STATIONARY AND MOVING DISPERSIVE MEDIA
UNIV OF MISSOURI

R 12
25/09/89
\$43,713

NACHMAN
89-NM-714

CEFACIO

BRIAN

A VALIDATION-BASED LANGUAGE FOR EXPERT SYSTEMS

N 24
17/07/89
\$133,389

WAKSMAN
89-NM-651

UNIV OF KANSAS

PRAKASH

SHENY

MONOTONE APPROXIMATE QUERY PROCESSING

N 36
08/08/89
\$255,734

WAKSMAN
89-NM-667

UNIV OF ILLINOIS

JANE

LIU

CONFERENCE ON THEORETICAL ASPECTS OF REASONING ABOUT KNOWLEDGE

N 01
14/08/89
\$23,500

WAKSMAN
89-NM-678

IBM ALMADEN RESEARCH CENTER

MOSHE

VARDI

PURPOSE-DRIVEN ANALOGICAL LEARNING

N 36
21/08/89
\$450,000

D
WAKSMAN
89-NM-685

TUFTS UNIVERSITY

BETH

ADELSON

COMPUTER AND MATHEMATICAL MODELLING OF MASSIVELY PARALLEL ARCHITEC
TURES FOR SELF-ORGANIZING NEURAL PATTERN RECOGNITION MACHINES
ECSTON UNIVERSITY

\$100,000
01/01/90
\$210,000

REPLICA CONTROL ALGORITHMS IN DISTRIBUTED DATABASES

N 36
15/09/89
\$184,936

A
WAKSMAN
89-NM-699

UNIV OF TENNESSEE

DAVID

MUTCHLER

TITLE
TITLE (CONT.)
INSTITUTION

INDUCTIVE LEARNING OF DECISION RULES FROM EXAMPLES

UNIV OF NORTH CAROLINA

AI-SYSTEMS ANALYSIS

LOUISIANA STATE UNIVERSITY

OBJECT RECOGNITION IN RANGE IMAGES USING CAD DATABASES

UNIV OF MICHIGAN

INVESTIGATOR

MICHALEWICZ

JONES

JAIN

ZBIGNIEW

BUSH

RAMESH

TYPE/MONTHS
RECEIVED
AMOUNT

N 24
21/09/89
\$122,495

N 03
25/09/89
\$23,212

N 24
27/09/89
\$367,224

STATUS
PROGRAM MANAGER
PROPOSAL #

WAKSMAN
89-NM-705

WAKSMAN
89-NM-715

WAKSMAN
89-NM-716

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TOT AMT

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BASIC STUDIES IN PLASMA PHYSICS: STATISTICAL MECHANICS OF EQUILIBRIUM/NoneQUILIBRIUM PHENOMENA IN INTERACTING COLLUMPE SYSTEMS FUTTERS - THE STATE UNIVERSITY	LEBOWITZ	R 24 13/07/89 \$195,145	A BARKER 89-NP-210	\$95,332 01/11/89 \$195,145
COMPETITION BETWEEN ELECTROMAGNETIC MODES IN A FREE-ELECTRON MASER UNIV OF SOUTHERN CALIFORNIA (CELEC ENG)	MCCURDY	N 36 15/08/89 \$160,635	BARKER 89-NP-215	
NOVEL METHODS OF ACCELERATION CORNELL UNIVERSITY	NATION	R 12 16/08/89 \$210,000	BARKER 89-NP-216	
INVESTIGATION OF A RELATIVISTIC KLYSTRON TEXAS TECH UNIVERSITY	ZIEHER	N 48 18/08/89 \$955,300	BARKER 89-NP-219	
LASER SWITCHED POWER LINAC UNIV OF ROCHESTER	MELISSINCS	R 12 13/08/89 \$101,000	A BARKER 89-NP-221	\$101,000 01/01/90 \$101,000
COMPUTER SIMULATION OF ALFVEN WINGS IN CONNECTED PLASMAS ACROSS MAGNETIZED PLASMAS UNIV OF NEW MEXICO	GALVEZ	N 12 29/08/89 \$56,470	BARKER 89-NP-229	
THEORETICAL RESEARCH ON A PLASMA Cerenkov RADIATION SOURCE KRALL ASSOCIATES	KRALL	N 12 30/08/89 \$92,531	BARKER 89-NP-231	
CATHODE SURFACE ANALYSIS USING RAMAN SPECTROSCOPY UNIV OF UTAH	GREW	N 36 31/08/89 \$379,763	BARKER 89-NP-232	
MICROWAVE INTERACTIONS WITH PLASMAS SPI INTERNATIONAL	ECKSTROM	N 24 22/09/89 \$299,960	BARKER 89-NP-241	
	JOEL			
	ALAN			
	JOHN			
	KLAUS			
	ADRIAN			
	MIGUEL			
	NICHOLAS			
	RICHARD			
	CONALD			

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LABORATORY EXPERIMENTS TO SIMULATE BROADBAND ABSORPTION OF RADIO WAVES IN SPACE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LEE MIN-CHANG	N 12 22/09/89 \$75,000	BARKER 89-NP-242	
COMPLEX SIMULATION OF COLLECTIVE ION ACCELERATION BY A RELATIVISTIC ELECTRON BEAM UNIV OF NEW MEXICO	SALVEZ MIGUEL	N 12 22/09/89 \$61,471	BARKER 89-NP-243	
TOPICAL CONFERENCE ON RESEARCH TRENDS IN NON-LINEAR & RELATIVISTIC EFFECTS IN PLASMAS LA JOLLA INSTITUTE	STEFAN VLADISLAV	N 12 22/09/89 \$3,000	BARKER 89-NP-244	
HYPER LASER COOLING AND TRAPPING OF ATOMS NATIONAL INST. OF STANDARDS & TECHNOLOGY	LUCATORTO THOMAS	N 36 26/07/99 \$138,400	KELLEY 39-NP-212	
MODELLING THE EXCITATION OF MACROSCOPIC OSCILLATIONS IN F- SOURCE PLASMAS (LANL) DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	GERWIN (LANL) RICHARD	N 12 10/09/89 \$30,000	KELLEY 39-NP-214	\$90,000 01/10/89 \$90,000
CALCULATION & HALF COLLISION ANALYSIS OF STATE-TO-STATE CROSS SECTIONS IN ATOMIC COLLISIONS NATIONAL INST. OF STANDARDS & TECHNOLOGY	JULIENNE PAUL	N 12 18/08/89 \$115,000	KELLEY 89-NP-220	\$115,000 01/10/89 \$115,000
ENERGY CRIGNER THRESHOLD LAW) AND LOW-ENERGY ELECTRON ATTACHMENT PHENOMENA NET PROPULSION LABORATORY	CHUTJIAN ARA	N 36 18/08/89 \$276,100	KELLEY 89-NP-222	
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS UNIV OF FLORIDA	BARTLETT RODNEY	N 12 23/08/89 \$132,420	KELLEY 89-NP-223	\$132,420 01/12/89 \$132,420
ULTRAVIOLET EMISSION CROSS SECTIONS BY ELECTRON AND PROTON IMPACT NASA - NATL AERONAUTICAL AND SPACE ADMIN	AJELLO JOSEPH	N 12 23/08/89 \$115,700	KELLEY 89-NP-224	\$115,700 01/10/89 \$115,700

REPORT DATE 10/11/89

PROPOSAL STATUS REPORT (1 JUL 89 - 30 SEP 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FORMATION & ENHANCEMENT OF H(-) IONS IN A MAGNETICALLY FILTERED MULTI-CUSP ION SOURCE/MEASUREMENT OF NEUTRAL ATOMIC/MOLECULAR..... LAWRENCE BERKELEY LABORATORY	LEUNG KA-NGO	N 12 24/08/89 \$204,326	A KELLEY 89-NP-225	\$204,326 01/10/89 \$204,326
NEGATIVE ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES JOHN	N 12 24/08/89 \$30,000	A KELLEY 89-NP-226	\$30,000 01/10/89 \$30,000
ELECTRON IMPACT IONIZATION AND ATTACHMENT STUDIES OF MOLECULES OF INTEREST TO PULSE POWER TECHNOLOGY JET PROPULSION LABORATORY	SRIVASTAVA SANTOSH	N 12 25/08/89 \$75,000	A KELLEY 89-NP-227	\$75,000 01/12/89 \$75,000
A TANDEM MICROWAVE-DRIVEN CUSP NEGATIVE ION SOURCE (UNIV OF CALIFORNIA)	PORSE EDWARD	R 12 29/08/89 \$54,000	KELLEY 89-NP-230	
NEGATIVE ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES JOHN	N 9 12/09/89 \$105,000	A KELLEY 89-NP-239	\$105,000 01/01/90 \$105,000
THE POLARIZATION AND MAGNETOMETRY HARVARD UNIVERSITY	CHUPP TIMOTHY	N 24 22/09/89 \$571,990	KELLEY 89-NP-245	
PROVIDE COMPUTING SUPPORT ON WL GRAY SUPERCOMPUTER TO AFCSR CONTRACTOR, DR HARVEY MICHELS, UNITED TECHNOLOGY RESEARCH CENTER AIR FORCE WEAFONS LAB	BERNETTE HOWARD	N 12 27/09/89 \$10,000	A KELLEY 89-NP-246	\$10,000 01/10/89 \$10,000
INVESTIGATION OF CRUSTAL DEFORMATION IN THE VICINITY OF WARDENBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	N 36 01/09/89 \$473,770	PERRIZO 89-NP-233	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS AND RESOURCES (COMMITTEE ON SEISMOLOGY) NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 12 11/09/89 \$15,000	PERRIZO 89-NP-237	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES (COMMITTEE ON GEODESY) NATIONAL ACADEMY OF SCIENCES	LONG ROBERT	N 09 11/09/89 \$15,000	PERRIZO 99-NP-238	
INHIBITING THE PHOTOGRADATION OF LASER EYES BY MOLECULAR EXCITATION BERKELEY UNIVERSITY	LAWANDY N. M.	N 12 13/07/89 \$145,687	SCHLOSSBER 89-NP-211	\$185,000 01/01/90 \$555,000
RESEARCH SUPPORT FOR THE LABORATORY FOR LIGHTWAVE TECHNOLOGY BERKMAN UNIVERSITY	MORSE T. F.	N 36 27/07/89 \$640,200	A SCHLOSSBER 89-NP-213	
GENERATION OF COHERENT ACOUSTIC WAVES IN THE THZ RANGE UNIV OF NEW MEXICO	LIELS JEAN-CLAUDE	N 36 16/08/89 \$346,630	SCHLOSSBER 89-NP-217	
SYNTHETIC NONLINEAR MEDIA FOR OPTICAL FREQUENCY CONVERSION STANFORD UNIVERSITY	FEJER MARTIN	N 36 18/08/89 \$759,203	SCHLOSSBER 89-NP-218	
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS STANFORD UNIVERSITY	HARRIS STEPHEN	R 24 29/08/89 \$215,390	SCHLOSSBER 89-NP-228	
LABORATORY FOR X-RAY OPTICS UNIV OF ARIZONA	FALCC CHARLES	N 36 01/09/89 \$1,555,000	A SCHLOSSBER 89-NP-234	\$215,000 01/10/89 \$702,000
HIGH PRECISION SOFT X-RAY OPTICS LAWRENCE BERKELEY LABORATORY	ATTWOOD CAVID	N 06 14/09/89 \$17,500	A SCHLOSSBER 89-NP-240	\$17,550 15/09/89 \$17,550