

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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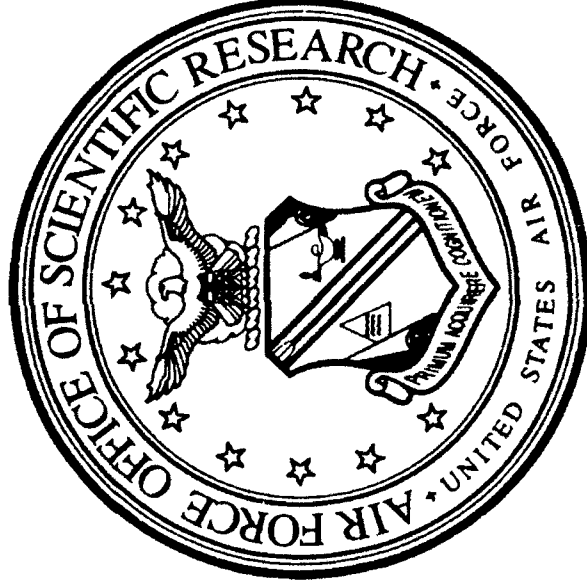
RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

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OCTOBER - DECEMBER 1992

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

JANUARY 1993

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INTRODUCTION

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the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.

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

PURPOSE

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

AFOSR MISSION

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

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

KEY TO READING THE DATA

TITLE - The title of the research proposal

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

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

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

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

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

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

- BLANK SPACE = indicates the proposal is being reviewed.

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

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

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

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

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

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

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

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Col Arthur L. Pavel, Deputy Director 5017

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Dr Alan Rosenstein	4960	Dr Marc Jacobs	5027
Dr Alexander Pechenik	4963		
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Dr Howard Schlossberg	4906		
Dr Harold Weinstock	4933		
Dr Alan Craig	4931		
Maj Gernot Pomrenke	4931		
Maj Billy Smith	5011		

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PART 1

REPORT DATE 01/01/73

INSTITUTION INDEX (1 OCT 72 - 31 DEC 72)
 FOR SOURCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - 000 = ACCEPTED, 001 = DECLINED, 002 = WITHDRAWN

PAGE 1

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Advanced Research and Applications Corp	Appel	Lou			93-NE-038	A	SCHLOSSBER
Aerospace Corporation	Bridgeman	Charles			93-MA-035	A	JONES
Air Force Institute of Technology	Bridgman	Charles			93-XO-002	A	OMENS
					93-XO-001	A	OMENS
					93-XO-004	A	BOLAND
					93-XO-005	A	BOLAND
Air Force Weapons Lab	Jurnette	Howard			93-MA-064	A	JACOBS
	Mayes	Mary Ann			93-MA-028	A	SAKELL
					93-MA-029	A	SAKELL
					93-MA-043	M	SAKELL
Air Force Flight Aeronautical Labs	Kimmel	Roger			93-NC-029		PECHEMIK
American Ceramic Society	Holbrook	Paul			93-NC-031		GLASSMAN
Arizona State University	Jarcolo	Helene			93-NC-006	A	JACOBS
	Crouch	Peter			93-NE-012	A	WITT
	Mayer	James			93-NC-038	A	LEE
	Thakar	Arinal			93-NC-066		TANGMEY
	Pastore	Richard			93-NC-060		RAOOSKI
Birmingham University	Hughes	4. Jeffrey			93-NC-062		STOBIE
Boston University	Lee	Min-Chang			93-NC-079		STOBIE
	Sindri	Guido V.			93-NE-034		WEINSTOCK
	Linsman	Geroge			93-NC-043	D	TANGMEY
Brandeis University	Lisan	John			93-NC-015	D	TANGMEY
Brighton & Women's Hospital	Doife	Jeremy			93-NE-052		WITT
Brown University	Jurakko	Arto			93-MA-022		JONES
	Jurash	Suzro			93-MA-012		LEWIS
	Abrens	Thomas			93-NE-144		CRAIG
	Bridgms	William			93-NE-027		POMRENKE
	McGill	F			93-NE-123		POMRENKE
	ACKOY	Thomas			93-NE-091		KELLEY
	Psaltis	Vincent			93-NE-143		CRAIG
	Van de Velde	Demetri			93-MA-027		JACOBS
	Greve	Eric			93-NE-124		POMRENKE
Carnegie-Mellon University	Skoranski	David			93-NE-121		POMRENKE
	Usherall	Marek			93-NC-003		STOBIE
Catholic University of America	Padageorjian	Herbert			93-MA-034		NACHMAN
City College - CUNY	Alfano	Demetrios			93-NE-109		SCHLOSSBER
City University of New York	Atoski	Robert			93-NE-094		WEINSTOCK
Clark University	Adams	Charles			93-MA-098		GLASSMAN
Clemson University	Kowalski	Warren			93-NE-044		SCHLOSSBER
Colorado School of Mines	Jefferson	Frank			93-NC-035		ERSTFELD
Colorado State University	Colton	Laurance			93-NC-063		STOBIE
	Judek	William			93-NC-033		HADDAD
	Gray	F. Eumero			93-NC-051		STOBIE
	Maciel	William			93-NC-021		LEE
	Martin	Gary			93-NC-012	A	WILKES
	Witkiss	Charles			93-NC-055		WILKES
	Poore	Pericles			93-NE-016	A	CRAIG
		Audrey			93-MA-048	A	GLASSMAN

EXPIRATION DATE 01/01/83
 INSPIRATION NO. 61 OCT 82 - 31 DEC 82
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - PA = ACCEPTED, PD = DECLINED, PM = WITHDRAWN

INSTITUTION	INVESTIGATOR	PROPOSAL	STATUS	PM NAME
LAST NAME	FIRST NAME	MIDDLE		
Columbia College	Robinson	Y		POMRENKE
Columbia University	Schwartz	A		TANGNEY
	Berman			BERMAN
	Radowski			RADOSKI
	Radowski			HEBERG
	Radowski			RADOSKI
	Dickinson			DICKINSON
	Schlosser			SCHLOSSER
Cornell University	Erstfeld			ERSTFELD
	Pomrenke			POMRENKE
	Lewis			LEWIS
	Kozumbo		A	KOZUMBO
	Rosenstein			ROSENSTEIN
	Rosenstein			ROSENSTEIN
	Kozumbo		A	KOZUMBO
	Suddarth			SUDDARTH
	Radowski			RADOSKI
	Heberg			HEBERG
	Suddarth			SUDDARTH
	Lewis			LEWIS
	Kozumbo			KOZUMBO
	Collins			COLLINS
	Heberg		A	HEBERG
	Pomrenke			POMRENKE
	Craig			CRAIG
	Suddarth		A	SUDDARTH
	Stobie			STOBIE
	Stobie			STOBIE
	Waksman			WAKSMAN
	Rosenstein		A	ROSENSTEIN
	Suddarth		A	SUDDARTH
	Waksman		A	WAKSMAN
	Barker		A	BARKER
	Barker			BARKER
	Nachman			NACHMAN
	Jacobs		A	JACOBS
	Witt			WITT
	Kelley		A	KELLEY
	Birkam		A	BIRKAM
	Rosenstein			ROSENSTEIN
	Wilkes		D	WILKES
	Craig			CRAIG
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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ALMA STATE UNIVERSITY	Jordan	Mark		S	33-NC-065	A	BALL
Illinois Institute of Technology	Collins	Marck			33-NC-006	A	ROSENSTEIN
	Haylo	Hassan		M	33-NA-001	A	MCMICHAEL
Indiana University/Bryant Hall	Katson	Charles		S	33-NL-076		TANGNEY
Institute of Mathematical Statistics	Molin	Deborah			33-NM-041		SJOGREN
Iowa State Univ of Science and Tech	Schmidt	Michael		M	33-NM-033	A	GLASSMAN
Johns Hopkins University	Jaydylan	Paul		J	33-NC-044		BERMAN
Kansas State University	Ram	Alexander		G	33-NM-020	A	NACHMAN
Knoxville College	Rader	Mark			33-NE-039	A	BARKER
Lehigh University	Heany	James		C	33-NE-131		POMRENKE
	Smith	C R			33-NA-053	A	FANT
	Walker	J		D	33-NA-006	A	FANT
Manfield Research Institute	Davis	Paul		R	33-NE-076		BARKER
Matron Electron Devices	Sievals	John			33-NE-050	A	BARKER
Lockheed Missiles & Space Co Inc	Imhof	William		L	33-NL-009		STOBIE
Los Alamos Nat'l Lab--Appl Theor Phys Div	Miller	Warner		A	33-NE-010	A	BARKER
MIT -- Lincoln Lab	Chrlsen	Daniel		J	33-NE-015		SCHLOSSBER
ARC Applied Psychology Unit	Paddalay	Alan		D	33-NL-019		TANGNEY
Massachusetts Institute of Technology	Antonialis	Eletri		A	33-NE-103		WITT
	Aranson	Christopher		G	33-NM-044	A	SUDDARTH
	Bruear	Kenneth		S	33-NA-016	A	MCMICHAEL
	Urwelhaus	Mildred		S	33-NE-102		WEINSTOCK
	Gratzer	Gene		F	33-NL-003	A	BOLAND
	Hastings	Edward		M	33-NA-057	A	FANT
	Ippe	Daniel		E	33-NA-034	A	BIRKAN
	Kleppner	Eric		D	33-NL-009	A	BOLAND
	Lee	Min-Chang			33-NE-108		SCHLOSSBER
	Martinez-Sanchez	Manuel			33-NE-093	A	KELLEY
	Orlin	James		3	33-NE-013	A	BARKER
	Pelloux	Regis		M	33-NE-077	A	BARKER
	Richards	Whitman			33-NA-040	A	BIRKAN
	Tedroe	Paul		M	33-NM-016	A	GLASSMAN
	Thomas	Edwin		L	33-NE-060	A	WEINSTOCK
	Wallace	John		B	33-NL-035		TANGNEY
Materials Research Society					33-NI-005	A	BOLAND
	Henderson	John			33-NC-036	A	HEDBERG
Michigan State University	Koochesfahani	Manoochen		M	33-NE-031	A	POMRENKE
	Perger	Farren		M	33-NE-048	A	WITT
	Seplen	Jruec		F	33-NL-012	A	TANGNEY
	van Kuyk	Frederick			33-NA-052	A	MCMICHAEL
Montana State University	Rogallo	Bob			33-NE-029	D	KELLEY
NASA - Ames Research Center	Swealio	Peter			33-NE-051	A	BARKER
National Academy of Sciences	Bruno	Thomas		J	33-NL-036	A	KOZUMBO
National Inst. of Standards & Technology	Casassa	Michael		P	33-NA-042	A	SAKELL
					33-NA-011	A	LEWIS
					33-NA-020	A	TISHKOFF
					93-NA-032	A	BERMAN

TOP SUBJECT OFFICE OF SCIENTIFIC RESEARCH
 STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
	LAST NAME					
Naval Research Laboratory	Jandry	Carlos		93-NA-030	A	JONES
Naval Services Warfare Center	Place	Don		93-XD-003	A	WILKERSON
New Jersey Institute of Technology	Shattacharjee	Manish	C	93-NM-065		SJOGREN
	Goode	Philip	R	93-NL-057		RADOSKI
	Hsu	C T Thomas		93-NA-038		LEWIS
New Mexico Highlands University	Zilic	Djuro	S	93-NM-035		SJOGREN
New Mexico Institute of Mining and Tech	Krenzel	Paul	R	93-NL-014	A	STOBIE
New School for Social Research	Wack	Arlen		93-NL-013		TANGMEY
New York University	Warman	Paul	R	93-NE-030	D	KELLEY
	Kaufman	Lloyd		93-NL-017		TANGMEY
North Carolina State University	Danks	Robert	T	93-NM-083		JACOBS
	Ostervang	Philip	A	93-NC-002	A	WILKES
North Dakota State University	Joudjouk	Philip	R	93-NC-066		HEDBERG
Northeastern University	Chan	Chung		93-NE-150		BARKER
	Jiang	Hua		93-NI-011	A	BOLAND
	Manadev	N.V.R.		93-NM-066		GLASSMAN
Northeastern University	Achenbach	Jan	D	93-NE-055	A	WEINSTOCK
	McKoon	Gail		93-NL-013		TANGMEY
	Pinsky	Mark		93-NM-051	A	SJOGREN
	McKee	Rodney	A	93-NC-008	A	BURGGRAF
Oak Ridge National Lab	Feth	Lawrence	L	93-NL-021		TANGMEY
Ohio State Univ Research Foundation	Forest	W.	S	93-NM-001		NACHMAN
Ohio State University	Forest	Gregory	M	93-NM-072		NACHMAN
	Rich	J. William	J	93-NC-046		BERMAN
Odessa State University	Hauenstein	Robert		93-NE-126		POMRENKE
	Lechmiller	Robert	L	93-NL-074		KOZUMBO
	Kalio	Gilbert	J	93-NC-001		WILKES
	Kafe	Lionel	M	93-NC-063		BURGGRAF
	Song	J	J	93-NE-056		POMRENKE
Old Dominion University	Ishibashi	Isao	L	93-NA-037		LEWIS
	Jackson	Thomas		93-NM-013		NACHMAN
Optical Society of America	Quinn	Jarus		93-NE-017	A	SCHLOSSER
Oregon Graduate Institute	Leen	Todd	K	93-NM-089		SUDDARTH
	Moody	John		93-NM-045		SUDDARTH
Oregon Graduate Institute of Sci & Tech	Jeffrey	Richard	K	93-NE-094		WITT
Pennsylvania State University	Blanco	Patricia	A	93-NC-052		HEDBERG
	Culter	Paul	H	93-NE-079		BARKER
	Harrison	Ian	R	93-NC-039	A	ERSTFELD
	Micci	Michael		93-NA-032	A	BIRKAM
	Santivice	Domenic	A	93-NA-056	A	TISHKOFF
	Kuo	Spencer		93-NE-018	A	BARKER
	Kwai	F.	K	93-NC-005		LEE
	Myerson	Allan	S	93-NA-018		LEWIS
	Aksay	Ilhan		93-NC-034	A	ERSTFELD
Princeton University	Choudhri	Edgar	Y	93-NA-033	A	BIRKAM
	Kung	Sun-fuang		93-NM-033		SUDDARTH
	Orszag	Steven	A	93-NA-008	A	MCMICHAEL
	Paor	H. Vincent		93-NM-053		SJOGREN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Durham Research Foundation	Junson	Robert			93-NE-127	A	POMRENKE
	Vice	John			93-NA-004	A	GLASSMAN
Durham University	Fleeter	Stanford			93-NA-054	A	TISHKOFF
	Atkinson	Michael			93-NE-081	A	WITT
Zensselaer Polytechnic Institute	Flaherty	Joseph			93-NA-019	A	JACOBS
					93-NA-084		JACOBS
	Fark	Richard			93-NE-113		SCHLOSSBER
	Lim	Chuan			93-NA-062		NACHMAN
	MacCrone	Robert			93-NC-022	D	ERSTFELD
	Witchnell	John			93-NA-043		GLASSMAN
	Schomatter	Leo			93-NE-088		WITT
	Zhang	Xi-Cheng			93-NE-114	A	SCHLOSSBER
					93-NE-134		SCHLOSSBER
					93-NE-135		TANGMEY
Research Development Corporation	Laddo	John			93-NA-044	A	GLASSMAN
	Jennils, Jr.	John			93-NA-018	A	SCHLOSSBER
Rice University	Young	James			93-NE-136	A	SJOGREN
	Jorek	Stan			93-NA-069		COLLINS
Rome Air Development Center	Madani	Itzhak			93-NA-046		GLASSMAN
	Kosler	Eileen			93-NA-075		BALL
Rutgers - The State University	Roberts	Fred			93-NA-082	D	BARKER
	Klein	Lisa			93-NC-020		CRAIG
Rutgers, The State University	Lepowitz	Joel			93-NE-053	A	SUDDARTH
	Lu	Yicheng			93-NA-081		TANGMEY
SPIE - International Soc for Optical Enginng	Strawderman	William			93-NA-001		HEBERG
	Montanye	J. Terrence			93-NC-016		TANGMEY
TRI International	Schwitt	Robert			93-NA-026		TANGMEY
	Jevins	Alan			93-NA-055		KOZUNBO
Schedens Eye Research Institute	Arend	Laurence			93-NA-033		GLASSMAN
	Wright	John			93-NA-036	A	DICKINSON
Southern Oklahoma St U-Phys Sci Dept	Kennington	Jeffery			93-NA-011	A	COLLINS
	Stueb	Brian			93-NA-031	A	SAKELL
St Michael Hospital	Johnson	Daltir			93-NA-010	A	POMRENKE
	Bayanoff	Donald			93-NA-005	A	JONES
Stanford University	Bates	Clayton			93-NA-031	A	KELLEY
	Cannon, Jr	Robert			93-NA-046		NACHMAN
State University of New York	Chang	Fu-Kuo			93-NE-092	A	JACOBS
	Chu	Steven			93-NA-085	A	WEINSTOCK
Stevens Institute of Technology	Golub	Gene			93-NA-012	A	BERMAN
	Kapitulnik	Thomas			93-NA-027	A	JONES
Syracuse University	Lars	Richard			93-NE-090	A	KELLEY
	Chiang	Fu-Pan			93-NA-061	A	STOBIE
Syracuse University	Atcalf	Harold			93-NE-008	A	BARKER
	Walcak	Chris			93-NA-077	A	SJOGREN
Syracuse University	Mardi	Vittorio			93-NA-010	A	BOLAND
	Wang	Henry					

STATUS = ACCEPTED, *U* = UNDER REVIEW, *W* = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Texas A and A Research Foundation	Ailton	Jay	R	93-NM-021	A	NACHMAN
	Althelt	Thomas	T	93-NL-004		STOBIE
	Shenille	Dayne	K	93-NL-027		TANGNEY
	Prattin	Chiraf	K	93-NM-090		SUDDARTH
Texas Engineering Experiment Center	Eare	Carol		93-NI-001	A	BOLAND
	Kristiansen	Asyne		93-NE-061	A	BARKER
	Zieher	Klaus	W	93-NE-062	A	BARKER
	Keiley	Paul	L	93-NE-106		SCHLOSSBER
Texas University	Jeelani	Shaik		93-NA-024		JONES
	Chapen	Rustell	A	93-NE-041		CRAIG
	Judhu	Muniram		93-NA-013		LEWIS
	Calvert	Paul	D	93-NC-043		HEDBERG
Univ of Alabama	Falco	Charles	W	93-NE-042	A	SCHLOSSBER
	Genrels	Tom		93-NL-023	A	RADOSKI
	Khitrova	Galina		93-NE-110	A	SCHLOSSBER
	Peterson	Mary	A	93-NL-022	A	TANGNEY
Univ of Arkansas	Peynabadian	Nasser		93-NE-020		KELLEY
	R. Schriber	K. Gallosy		93-NE-096		WITT
	Saliba	Gregory	J	93-NE-113		POMRENKE
	Janos	Martin	S	93-NL-045		COLLING
Univ of California, Berkeley	Hirdsall	Charles		93-NE-063		BARKER
	Falcone	Roger		93-NE-105		SCHLOSSBER
	du	Cheming		93-NE-064		SMITH
	Lau	Kam	T	93-NE-154		CRAIG
Univ of California, Irvine	Polac	Elliah		93-NM-043	A	JACOBS
	Seykally	Richard	J	93-NC-047		BERMAN
	Saktn	John	S	93-NE-083		WITT
	Strain	John		93-NE-155		CRAIG
Univ of California, Los Angeles	Jenford	Gregory		93-NM-008	A	JACOBS
	Livernia	Enrique	A	93-NE-060	A	BARKER
	Jynes	Robert	J	93-NC-028		PECHENIK
	Esaner	Sadik	C	93-NE-097		WEINSTOCK
Univ of California, San Diego	Kussel	Andrew	C	93-NE-147		CRAIG
	Li	Charles	C	93-NE-152		CRAIG
	Friedmann	Peretz	W	93-NE-156		CRAIG
	Lin	Chih-Ming		93-NE-029		POMRENKE
Univ of California, Riverside	Lunanne Jr	Anthony	T	93-NE-083		WITT
	Lunanne Jr.	Yeville	C	93-NA-050	A	JONES
	Menca	Rajesh	K	93-NA-055		MCMICHAEL
	Cristian	Flavio		93-NE-080		BARKER
Univ of California, San Diego	Footo	Stephen	C	93-NE-069		BARKER
	Kadtke	James		93-NE-070		BARKER
				93-NE-011	A	BARKER
				93-NL-040		KOLUNBO
Univ of California, San Diego				93-NM-068	A	SUDDARTH
				93-NL-048		MADDAO
				93-NM-067		NACHMAN

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of California, Santa Barbara	Kusnel	Andrew	C	93-MC-025	A	ERSTFELD
	Ascholson	David	D	93-MC-042		ERSTFELD
	Goldren	Larry	A	93-ME-095		WEINSTOCK
	Wanga	Fred	F	93-ME-149		CRAIG
Univ of Central Florida	Slison	Richard	D	93-MC-043	A	PECHENIK
	Richardson	Martin	P	93-MC-024	A	TANGNEY
	Sah	H.	P	93-ME-043		SCHLOSSBER
	Silvest	William	T	93-ME-107		KELLEY
Univ of Chicago	Stegeman	George	J	93-ME-153		SCHLOSSBER
	Sloener	Steven	A	93-MC-064		CRAIG
	Simpson	John	A	93-MC-059		ERSTFELD
	Van Cauter	Eve	H	93-MC-010	A	RADOOSKI
Univ of Cincinnati	Garratt	Patrick	T	93-MC-079		HADDAD
	Maed	Awatef	T	93-MC-002		WAKSMAN
	Hubbard	Arthur	B	93-MC-026		SAXELL
	Kosel	Peter	Z	93-MC-004	A	WILKES
Univ of Colorado	Jekhar	Dana	D	93-MC-023		BOLAND
	Anderson	William	D	93-MC-053		ROSENSTEIN
	Alusan	Shelly	J	93-ME-099		SCHLOSSBER
	Couley	Kenneth	J	93-ME-130	A	STOBIE
Univ of Colorado at Denver	Douglas	Robert	R	93-MC-063		KOZUMBO
	Federstein	Fred	R	93-MC-068		WEINSTOCK
	Glover	Stephen	W	93-ME-122		POMRENKE
	Leone	Marvin	A	93-MC-044		BERMAN
Univ of Connecticut	Lutjes	John	J	93-ME-049		POMRENKE
	Nesbitt	David	J	93-MC-049		FANT
	Wagner	Kevin	E	93-MC-092		CRAIG
	Debrauer	Robert	V	93-MC-056		BERMAN
Univ of Dayton	ear-Shalom	Yaakov	E	93-MC-038		SJOGREN
	Srinivasan	A	E	93-MC-047		ERSTFELD
	Javison	Joseph	R	93-MC-001	A	GLASSMAN
	Schroeder	James	E	93-MC-023		JONES
Univ of Edinburgh	Fate	Austin	R	93-MC-074		YOUNG
	Reynolds	John	E	93-MC-050		SJOGREN
	Smith	Scott	D	93-MC-080		WAKSMAN
	Sorkin	Robert	A	93-MC-002		LEE
Univ of Georgia	Duncan	Michael	O	93-MC-054		KOZUMBO
	Summers	Anne	O	93-MC-024		TANGNEY
	Su	Wu-Pei	U	93-MC-040	D	BERMAN
	Eden	J. Gray	U	93-ME-112		HEBERG
Univ of Houston	Stewadi	Nasrallah	E	93-MC-024		BURGGRAF
	Gillette	Martha	E	93-ME-112		SCHLOSSBER
	Haji	Ibrania	E	93-MC-072		JACOBS
	Lintern	Gavan	E	93-ME-118		HADDAD
Univ of Illinois	Stallan	Gregory	E	93-MC-007		POMRENKE
				93-ME-085		TANGNEY
						MITT

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

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Kentucky Univ of Maryland	Trenary	Michael		33-NC-061		ERSTFELD
	Yang	Li-Tin		33-NL-043		KOZUMSO
	Aggour	M S		33-WA-004		LEWIS
	Intan	Stuart	S	33-NM-058		NACHMAN
	Granatstein	Victor	L	33-NE-032	A	BARKER
Univ of Maryland, Baltimore Campus Univ of Maryland, Baltimore County Univ of Miss Medical Center	Rosenfeld	Azriel		33-NE-067		BARKER
	Dayden	L. Michael		33-NM-087		SJOGREN
	Menyuk	Curtis	P	33-NC-023		LEE
	Pollen	Daniel	A	33-NM-037		NACHMAN
	Schwartz	William	J	33-NL-054		TANGNEY
Univ of Massachusetts	Gonzalez	John	M	33-NL-028		HADDAD
	Karasz	Frank		33-NM-061		SUDDARTH
	Utgoff	Paul		33-NC-053		LEE
	Woolf	Severly	E	33-NM-056		WAKSMAN
	Bernstein	Dennis	P	33-NM-023		WAKSMAN
Univ of Michigan	Glickrist	Brian	S	33-NM-073		JACOBS
	Wilgenbach	Ronald	E	33-NL-050		STOBIE
	Kharjonekar	Prasad	M	33-NE-072		BARKER
	Killeen	Flaohy	P	33-NM-075		JACOBS
	Kand	Stephen	L	33-NL-052		STOBIE
Univ of Minnesota	Winful	Herbert	C	33-NE-104		SCHLOSSER
	Chou	Steppen	G	33-NE-146		CRAIG
	Conan	Philo	Y	33-NE-026	D	WITT
	Knill	David	I	33-NE-123		POMRENKE
	Rosen	J.	C	33-NL-003	A	TANGNEY
Univ of Missouri Univ of New Hampshire Univ of New Mexico	Traflet	Ahmed	J	33-NM-014	A	GLASSMAN
	Hindel	Peter	H	33-NM-070	A	SJOGREN
	Sivaprasad	Kondaquata		33-NE-047	D	WITT
	Brueck	Steven	R	33-NI-006	A	BOLAND
	Malloy	Kevin	J	33-NE-058		SCHLOSSER
Univ of North Carolina	Schmalloglu	Edi		33-NE-117	A	SCHLOSSER
	Weiser	Martin	M	33-NE-009		BARKER
	Kisselav	Fouad	E	33-NC-060		PECHENIK
	Michalawicz	Zbigniew		33-NE-151		CRAIG
	Vainberg	Boris	R	33-NM-046		GLASSMAN
Univ of Notre Dame Univ of Oregon	Perad	Wolfgang		33-NM-022		NACHMAN
	Donnelly	Russell	J	33-NE-120		POMRENKE
				33-WA-014		MCMICHAEL
				33-NE-033	D	WEINSTOCK
				33-NM-031		WAKSMAN
Univ of Pennsylvania	Jinsbert	Matthew	L	33-NC-061		BERMAN
	O'Leary	William	P	33-WA-021		JONES
	Ponte-Castaneda	Pedro		33-NM-080	A	SUDDARTH
	Schwaber	James		33-NE-133		POMRENKE
	Choyce	Dolfin	J	33-NL-047		COLLINS
Univ of Pittsburgh Univ of Rochester	Furman	Joseph M. R.		33-NL-063		HADDAD
	Moore	Robert	Y	33-NE-141		BARKER
	Donaldson	William	R	33-NE-132		POMRENKE
	Hall	Dennis	G			

NO SOURCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Scranton	J. J. J. J.	Scoblewski	Rubin	G	33-NE-098	A	WEINSTOCK
		Univacchio	Vito		33-MI-002	A	BOLAND
		Danberry	Ujorn		33-NM-003	A	GLASSMAN
		Jomardzeli	J. A.		33-NA-015		MEMICHAEL
Univ of Southern Cal -- School of Eng	J. J. J. J.	Jomardzeli	Jean-Pierre		33-NA-033	A	LEWIS
		Sardet	Jan		33-NA-013		BYRKAN
Univ of Southern California	J. J. J. J.	Crain	Keith		33-NE-003		CRAIG
		Jenkins	Anupam	P	33-NE-037		POMRENKE
Univ of Surrey	J. J. J. J.	Aschukir	E		33-NA-043		SAKELL
		Muntz	William	P	33-NC-033		LEE
Univ of Tennessee	J. J. J. J.	dear	Gordon		33-NC-033		KOZUMBO
		Glosson	Idor		33-NE-074		BARKER
Univ of Texas	J. J. J. J.	Alekoff	J. Reese		33-NE-063	A	BARKER
		Reich	Clifford	A	33-NE-065		DICKINSON
Univ of Toledo	J. J. J. J.	Frühlich	Patrick		33-NM-030	A	GLASSMAN
		Jaillet	Bruce		33-NM-010		WAKSMAN
Univ of Virginia	J. J. J. J.	Porter	Robert	K	33-NE-018		TANGNEY
		Young	Henry	J	33-NE-006		SCHLOSSBER
Univ of Wisconsin	J. J. J. J.	Armetraut	Peter	9	33-NE-078		BARKER
		Doltz	Jan	J	33-NE-078		TANGNEY
Univ of Washington	J. J. J. J.	Jova	John Mark		33-NA-051	A	LEWIS
		Marjan	Cornelius	O	33-NM-073		NACHMAN
Univ of Western Ontario	J. J. J. J.	Menaker	Michael	K	33-NE-025	A	HADDAD
		Moore	Jenniss	R	33-NE-003		JONES
Univ of Wisconsin	J. J. J. J.	Proffitt	Mercedes	T	33-NE-056		TANGNEY
		Richards	Ellis		33-NE-145		RADOOSKI
Univ of Washington	J. J. J. J.	Went	John	A	33-NE-037	A	CRAIG
		Criminala	William	O	33-NA-045		ROSENSTEIN
Univ of Wisconsin	J. J. J. J.	Furness	Thomas	A	33-NE-067		MEMICHAEL
		Jarboe	Thomas	R	33-NE-071		TANGNEY
Univ of Wisconsin	J. J. J. J.	Mitchell	J. J. A.		33-NE-025	A	BARKER
		Johnson	Richard	A	33-NM-032		KELLEY
Univ of Wisconsin	J. J. J. J.	Kawar	Daniel	C	33-NM-015		SJOGREN
		Lin	Chun	C	33-NE-014	A	NACHMAN
Univ of Wisconsin	J. J. J. J.	Plesna	Michael	E	33-NE-009		KELLEY
		Scharrer	John	E	33-NE-075		LEWIS
Univ of Wisconsin	J. J. J. J.	Moisan	Michel	M	33-NE-133		BARKER
		Shreeve	Jeanne	L	33-NE-054		KELLEY
Univ of Wisconsin	J. J. J. J.	Miller	Kent	L	33-NE-032		HEDEBERG
		Wickso	John	P	33-NE-101	A </td <td>STOBIE</td>	STOBIE
Univ of Wisconsin	J. J. J. J.	Junzburger	Max	O	33-NE-011	A	WEINSTOCK
		Rogers	Craig	S	33-NA-026		WEINSTOCK
Univ of Wisconsin	J. J. J. J.	Hsu	Chin	S	33-NA-008	A	JACOBS
		Kuzyk	Mark	M	33-NC-030		BOLAND
Univ of Wisconsin	J. J. J. J.				33-NC-062		JACOBS
							LEE
Univ of Wisconsin	J. J. J. J.						LEE

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Washington University	Murnan	Karlherat		93-WE-053	A	SCHLOSSER
	Pedders	Peter	A	93-WE-111		SCHLOSSER
	Archavac	Robert	R	93-NC-031		BERMAN
	Diary	Shankar d.	L	93-WE-143	A	CRAIG
Wayne State University	Staba	Jama	A	93-NC-007	A	ROSENSTEIN
	Barnard	Robert	D	93-MM-009	A	JACOBS
	Li	deping		93-MM-025		JACOBS
	Wenger	Lowell		93-MM-007	A	JACOBS
West Virginia University	Fang	deifu		93-WE-100		WEINSTOCK
	Lai	Hong-Jian		93-MM-017		NACHMAN
	Zhang	Cun-Yuan		93-MM-005		GLASSMAN
	Alawi	Yousef		93-MM-057		GLASSMAN
Western Michigan University	Landis	Dayne	G	93-MM-054		NACHMAN
	Cardar	d. Robert		93-WL-037		KOZUMBO
	Kluin	Michael	W	93-NC-013		WILKES
				93-NE-021		POMRENKE
Forsyther Polytechnic Institute				93-WE-007	A	BOLAND
				93-WE-140		WEINSTOCK
			J	93-NA-023		JONES
			C	93-WE-082		WITT
Fright Materials Research				93-WE-035		POMRENKE
			S	93-MM-052		SUDDARTH
			R	93-NA-017		MCMICHAEL
			N	93-NA-048	A	MCMICHAEL
Fate University School of Medicine				93-WL-025	A	HADDAD
				93-WL-029		COLLINS

PART 2

TITLE (TITLE CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INVESTIGATION OF THE PHYSICS OF SUPERSONIC JETS AND TURBULENT BOUNDARY LAYERS AT HIGH REYNOLDS NUMBERS California Institute of Technology	Yarab	N 36 23/10/92 \$997,000	A MCNICHAE 93-NA-001	\$325,000 01/02/93 \$997,000
AN INVESTIGATION OF DELIQUE STICK/BOUNDARY LAYER INTERACTION COMPTON Univ of Cincinnati	Ward	R 12 23/10/92 \$55,527	SAKELL 93-NA-002	
INFLUENCE OF MICROSTRUCTURE ON THE DYNAMIC MACRO-BEHAVIOR OF A MULTIPHASE PARTICULATE MATERIAL District of Columbia University	Ward	N 36 26/10/92 \$54,836	LEWIS 93-NA-003	
INFLUENCE OF MICROSTRUCTURE ON THE DYNAMIC MACRO-BEHAVIOR OF A MULTIPHASE PARTICULATE MATERIAL Univ of Maryland	Ward	N 36 26/10/92 \$176,767	LEWIS 93-NA-004	
THEORETICAL INVESTIGATION OF PROCESSES RELATED TO DYNAMIC STALL AND CONTROL Lehigh University	Ward	N 36 02/11/92 \$261,273	A FANT 93-NA-006	\$92,230 15/02/93 \$261,273
VAPOR TRANSPORT IN UNSATURATED SOIL Cornell University	Leonard	N 36 02/11/92 \$339,207	LEWIS 93-NA-007	
NUMERICAL STUDIES OF UNSTEADY COMPRESSIBLE TURBULENT SHEAR FLOWS Princeton University	Steven	N 36 02/11/92 \$543,739	A MCNICHAE 93-NA-008	\$149,950 01/04/93 \$595,271
SURFACE DAMAGE AND SCALE EFFECTS ON THE MECHANICAL BEHAVIOR OF DISCONTINUITIES IN ROCK Univ of Wisconsin	Michael	N 36 02/11/92 \$187,000	LEWIS 93-NA-009	
A STUDY OF FLUID PROBLEMS REQUIRING A DIRECT PARTICLE SIMULATION Stanford University	Donald	R 30 13/11/92 \$259,922	A SAKELL 93-NA-010	\$59,964 01/04/93 \$259,922

TITLE (TITLE (CONF.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
GEOTECHNICAL BOARD CORE SUPPORT National Academy of Sciences	Smellie Peter	R 29 16/11/92 \$46,667	A LEWIS 93-NA-011	\$11,667 01/03/93 \$46,667
DYNAMIC TENSIONAL FAILURE IN ROCK California Institute of Technology	Andrews Thomas	N 36 16/11/92 \$239,103	LEWIS 93-NA-012	
MICRO-STRUCTURE IN PARTICULATE MEDIA - A LATTICE TYPE APPROACH AND ITS VALIDATION Univ of Arizona	Judhu Munira	N 36 16/11/92 \$296,641	LEWIS 93-NA-013	
TURBULENCE MEASUREMENTS & MICROINSTRUMENTATION IN HIGH-REYNOLDS- NUMBER FLOWS OF HELIUM I, HELIUM II & WATER (PART 1) Univ of Oregon	Donnelly Russell	N 24 16/11/92 \$520,370	MCMICHAEL 93-NA-014	
INTERSCALE INTERACTIONS IN TURBULENT FLOWS Univ of Southern Cal -- School of Eng	Domaradzki J J	N 36 17/11/92 \$427,178	MCMICHAEL 93-NA-015	\$81,201 01/03/93 \$260,262
DEVELOPMENT OF MICRO-MACHINED SENSORS FOR FLUID FLOWS Massachusetts Institute of Technology	Breger Kenneth	N 36 17/11/92 \$260,262	A MCMICHAEL 93-NA-016	
TURBULENCE MEASUREMENTS & MICROINSTRUMENTATION IN HIGH-REYNOLDS- NUMBER FLOWS OF HELIUM I, HELIUM II AND WATER (PART 3) Yale University	Greenkavan K R	N 24 17/11/92 \$344,337	MCMICHAEL 93-NA-017	
SOIL POLLUTION MODELLING USING LATTICE MODELS OF CHEMICAL TWO- PHASE FLOW IN POROUS MEDIA Polytechnic University	Myerson Allan	N 36 17/11/92 \$281,788	LEWIS 93-NA-018	
COMPREHENSIVE INVESTIGATION OF LOW-AND HIGH-POWER ARCJET OPERATION Univ of Southern California	Freid Dan	N 24 16/11/92 \$440,148	A BIRKAN 93-NA-019	\$199,636 01/03/93 \$199,636

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THERMOPHYSICAL PROPERTIES OF SUPERCRITICAL JET FUELS National Inst. of Standards & Technology	Bruno Thomas	N 36 18/11/92 \$559,500	TISHKOFF 93-NA-020	
THE EFFECT OF MICRO-INSTABILITIES ON THE EFFECTIVE BEHAVIOR OF COMPOSITE MATERIALS Univ of Pennsylvania	Conce-Gastaneda Pedro	R 36 19/11/92 \$267,871	JONES 93-NA-021	
MICROMECHANICS OF HIGH-TEMPERATURE DEFORMATION AND FRACTURE IN CARBON-CARBON COMPOSITES Ipsen University	Suresh Sabra	N 36 18/11/92 \$420,000	JONES 93-NA-022	
PROGRESSIVE DAMAGE OF LAMINATED ORTHOTROPIC AND ANISOTROPIC PLATES Flight Materials Research	Tan Seng	N 36 18/11/92 \$272,359	JONES 93-NA-023	
HIGH TEMPERATURE CHARACTERIZATION OF CONTINUOUS FIBER REINFORCED CERAMIC MATRIX COMPOSITES Purdue University	Snijk Jeylani	N 36 18/11/92 \$425,417	JONES 93-NA-024	\$175,000 01/03/93 \$270,000
HIERARCHICAL ADAPTIVE MODELLING Univ of Virginia	Ammed	N 36 19/11/92 \$270,000	A JONES 93-NA-025	\$169,516 01/04/93 \$252,950
ELECTRO-MECHANICAL MODELING OF THE DYNAMICS OF ACTIVE CONTROL SYSTEMS BASED ON AN IMPEDANCE APPROACH Virginia Polytechnic Inst & State Univ	Grado Rogers	N 36 19/11/92 \$252,358	A JONES 93-NA-026	\$200,000 01/03/93 \$300,000
LOAD TRANSFER, INTERFACE CHARACTERIZATION, & TOUGHENING MECHANISM OF COMPOSITES State University of New York	Fu-Pen Chiang	N 36 19/11/92 \$300,000	A JONES 93-NA-027	\$15,000 01/12/92 \$15,000
PROVIDE COMPUTER SUPPORT ON AFML GRAY 2 AIR FORCE Weapons Lab	Mates Mary Ann	N 09 19/11/92 \$15,000	A SAKELL 93-NA-028	

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PROVIDE COMPUTER SUPPORT ON AVAL CRAY 2				
Air Force Weapons Lab	Mages	N 09 20/11/92 \$20,000	A SARELL 93-NA-029	\$20,000 01/12/92 \$20,000
MECHANICS OF COMPOSITE MATERIALS				
Naval Research Laboratory	Sanday	N 12 25/11/92 \$60,000	A JONES 93-NA-030	\$60,000 01/07/93 \$60,000
MODELLING AND CONTROL OF MULTI-LINK FLEXIBLE ARTICULATED STRUCTURES	Cannon, Jr	N 30 30/11/92 \$319,999	A JONES 93-NA-031	\$250,000 01/04/93 \$319,999
LIQUID ROCKET MOTOR COMBUSTION STABILITY USING COAXIAL INJECTORS AND SUPERCRITICAL PROPLET COMBUSTION AND DYNAMICS	Wicci	N 24 30/11/92 \$244,171	A BIRKAM 93-NA-032	\$244,171 01/01/93 \$244,171
INVESTIGATIONS OF THE CRITICAL IONIZATION VELOCITY (CIV) PHENOMENON IN SPACE	Conover, Jr	N 24 30/11/92 \$243,584	A BIRKAM 93-NA-033	\$243,584 01/02/93 \$243,584
PARTICLE-IN-CELL AND MONTE CARLO MODELLING OF ADVANCED PLASMA THRUSTERS	Edgar	N 24 30/11/92 \$449,167	A BIRKAM 93-NA-034	\$280,089 01/08/93 \$280,089
RESEARCH ON OPTICS AND MICROELECTRONICS THIN FILM RELIABILITY	Justings	N 12 02/12/92 \$100,000	A JONES 93-NA-035	\$100,000 01/01/93 \$100,000
Aerospace Corporation				
PROPOSED EXPERIMENTAL WORK AT THE U.S. NAVY RESEARCH LABORATORY'S RECONSTRUCTIBLE SPACECRAFT HOST FOR ATTITUDE AND POINTING EXPER...	Salmon	N 03 02/12/92 \$3,900	A WU 93-NA-036	\$3,900 15/12/92 \$3,900
Howard University	Peter			
MICROMECHANICAL STUDY OF GRANULAR MATERIALS BY DISCRETE ELEMENT METHOD & EXPERIMENTS-APPLICATION TO LIQUEFACTION POTENTIAL	Isaacs	N 36 10/12/92 \$250,142	LEWIS 93-NA-037	
Old Dominion University				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FIBER-REINFORCED RAPID-SETTING ALL WEATHER HIGH STRENGTH POLYESTER POLYMER CONCRETE New Jersey Institute of Technology	Isu C T Thomas	N 12 10/12/92 \$48,067	LEWIS 93-NA-038	
A MICROMECHANICAL INVESTIGATION OF INSTABILITY IN PARTICULATE MATERIALS Univ of Southern California	Jardet Jean-Pierre	N 36 10/12/92 \$320,267	LEWIS 93-NA-039	
PERFORMANCE IMPROVEMENTS IN PLASMA THRUSTERS Massachusetts Institute of Technology	Martinez-Janchez Manuel	R 24 10/12/92 \$210,934	A BIRKAN 93-NA-040	\$103,667 01/05/93 \$210,934
INVESTIGATION OF ACTIVE CONTROL OF COMBUSTION INSTABILITIES IN CHEMICAL ROCKETS Georgia Tech Research Corporation	Zinn Ben	N 36 15/12/92 \$461,934	A BIRKAN 93-NA-041	\$78,665 01/03/93 \$461,934
VASA AXES COMPUTER GRAPHICS SUPPORT FOR PAVIL 401V NASA - Ames Research Center	Toscallo Rob	N 09 16/12/92 \$15,000	A SAKELL 93-NA-042	
SPONSOR A HYPERSONICS SYMPOSIUM - HULLO 17-19 MAY 1993 Air Force Wright Aeronautical Labs	Kimmel Roger	N 03 17/12/92 \$30,000	M SAKELL 93-NA-043	
UNSTEADY SEPARATED FLOWS: EMPIRICAL MODELS FOR AERODYNAMIC PREDICTION Univ of Colorado	Lutiges Marvin	N 24 21/12/92 \$84,279	FANT 93-NA-044	
STUDIES IN FLOW DEVELOPMENT Univ of Washington	Celminale William	N 36 23/12/92 \$342,240	MCMICHAEL 93-NA-045	
ON-LINE DAMAGE DIAGNOSIS OF COMPOSITE STRUCTURES USING BUILT-IN PIEZOELECTRIC SENSORS AND ACTUATORS Stanford University	Chang Fu-Kuo	N 36 23/12/92 \$265,813	JONES 93-NA-046	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STRUCTURAL DAMAGE CHARACTERISTICS THROUGH FRACTALS Univ of Connecticut	Grinivasan A	N 12 23/12/92 \$142,152	JONES 93-NA-047	
EXPERIMENTS AND MODELING IN HIGH-REYNOLDS-NUMBER TURBULENCE Yale University	Greenivasan K	N 36 23/12/92 \$594,684	MCMICHAEL 93-NA-048	\$395,056 15/04/93 \$594,684
OPERATING EXPENSES OF THE USC IODINE VAPOR NONEQUILIBRIUM FLOW FLOW FACILITY Univ of Southern California	Muntz E	N 24 23/12/92 \$73,234	SAKELL 93-NA-049	
FUNDAMENTAL STUDY OF THE AERO-ELASTIC PROBLEMS AT HIGH SUPERSONIC AND HYPERSONIC SPEEDS Univ of California, Los Angeles	Friedmann Peretz	N 36 24/12/92 \$289,470	JONES 93-NA-050	
GRADUATE STUDENT SUPPORT FOR 4EET-0013 Univ of Virginia	Quva John Mark	N 12 24/12/92 \$9,375	A LEWIS 93-NA-051	\$9,375 01/04/93 \$9,375
MOLECULAR MIXING IN SHEAR LAYERS FORCED BY 2-D AND 3-D DISTURBANCES Michigan State University	Koochastafani Manoochehr	R 28 24/12/92 \$171,996	A MCMICHAEL 93-NA-052	\$84,377 01/06/93 \$171,996
HEAT TRANSFER AND FLOW STRUCTURE IN END-WALL BOUNDARY LAYERS Michigan University	Smith C R	N 36 29/12/92 \$465,032	A FANT 93-NA-053	\$155,522 01/03/93 \$465,032
PROPOSED CONTINUATION FOR AIR FORCE RESEARCH ON AEROPROPULSION TECHNOLOGY (AFRAP) Irvine University	Fleeter Sanford	R 12 30/12/92 \$155,670	A TISHKOFF 93-NA-054	\$155,670 15/08/93 \$155,670
(MURI) INTEGRATED MICROTRANSDUCER & NEURAL NETWORK SYSTEMS FOR DISTRIBUTED CONTROL Univ of California, Los Angeles	Lo Cnln-41n7	N 48 30/12/92 \$3,160,000	A MCMICHAEL 93-NA-055	\$790,000 15/04/93 \$3,160,000

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AFRPT TRAINEESHIPS Pennsylvania State University	Santavice	R 12 30/12/92 \$114,180	A TISHKOFF 93-NA-056	\$114,180 15/08/93 \$114,180
(AFRPT) MASSACHUSETTS INSTITUTE OF TECHNOLOGY Massachusetts Institute of Technology	Greller	R 12 31/12/92 \$103,271	A FANT 93-NA-057	\$103,271 01/09/93 \$103,271

TITLE PROJECT (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
*M AS INITIO STUDY OF CHLORALUMINATE MELTS Delaware State University	Malins Gilbert	N 36 05/10/92 \$185,793	WILKES 93-MC-001	\$149,540 01/01/93 \$149,912
CHEMICAL STUDIES IN LEWIS ACID AND SUPERACID IONIC LIQUIDS North Carolina State University	Osteryoung Robert	R 12 05/10/92 \$149,540	A WILKES 93-MC-002	\$149,540 01/01/93 \$149,912
COMBUSTION SYNTHESIS OF NIOBIUM INTERMETALLICS AND COMPOSITES Univ of Cincinnati	Sekhar J.	N 36 09/10/92 \$399,864	A ROSENSTEIN 93-MC-004	\$128,223 01/04/93 \$399,864
POLYMER GELS AS SENSORS Polytechnic University	Kael T.	N 36 08/10/92 \$339,041	LEE 93-MC-005	\$142,860 01/03/93 \$435,930
PROCESSING AND CHARACTERIZATION OF FINE GRAINED ORDERED INTERMETALLIC ALLOYS Illinois Institute of Technology	Yollar Marek	N 36 09/10/92 \$435,230	A ROSENSTEIN 93-MC-006	\$145,608 01/04/93 \$422,969
SONOCHEMICAL SYNTHESIS OF NANOCRYSTALLINE MOLYBDENUM DITHIOLIDE (40512) Washington University	Sastry Shankar M.	N 36 13/10/92 \$422,969	A ROSENSTEIN 93-MC-007	\$204,500 01/10/92 \$204,500
MOLECULAR BEAM EPITAXY GROWN OXIDES - A NEW CLASS OF CERAMICS Oak Ridge National Lab	McKee Rodney	N 12 13/10/92 \$200,000	A BURGGRAF 93-MC-008	\$20,000 01/11/92 \$20,000
TRANSITIONING FLUOROCARBON ETHER TECHNOLOGY European Office of Aero Resch and Develop	Chambers Richard	N 12 15/10/92 \$20,000	A HEDBERG 93-MC-009	\$87,000 01/03/93 \$442,265
INVESTIGATION FOR HIGH-TEMPERATURE EFFECTIC MICROCOMPOSITES General Electric Co	Tezlay Bernard	N 36 20/10/92 \$442,265	A ROSENSTEIN 93-MC-011	\$87,000 01/03/93 \$442,265

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES Colorado State University	Martin Charles	R 12 23/10/92 \$96,491	A WILKES 93-MC-012	\$96,491 01/06/93 \$96,491
1993 JORDON RESEARCH CONFERENCE ON ELECTROCHEMISTRY Jordan Research Conference Inc	Alexander	M 12 27/10/92 \$4,000	D WILKES 93-MC-014	
SYNTHESIS OF NEW MATERIALS: NEW METHODS FOR THE SYNTHESIS OF LOW- DIMENSIONAL SOLIDS USING SELF-ASSEMBLY & SELF-STACKING TECHNIQUES SRI International	Schmitt Robert	M 36 04/11/92 \$465,235	MEDEBERG 93-MC-016	
ATOMIC MECHANISMS OF FLOW AND FRACTURE AT METAL-CERAMIC INTERFACES AND THEIR ROLE IN THE DESIGN OF METAL MATRIX COMPOSITES Cornell University	Alami	M 36 10/11/92 \$407,601	A ROSENSTEIN 93-MC-017	\$130,258 01/06/93 \$407,601
ROOM TEMPERATURE MOLTEN SALT MICRODYNAMICS Alicante State University	Carner D. Robert	M 48 10/11/92 \$463,417	WILKES 93-MC-018	
CONTROL OF PHOTOASSOCIATION PRODUCTS BY LASER PHASE VARIATION Columbia University	Larson Richard	M 36 13/11/92 \$236,131	BERMAN 93-MC-019	
ISOPHASE SOL-GEL SUMMER SCHOOL Rutgers, The State University	Clain Lisa	M 04 19/11/92 \$12,925	D BALL 93-MC-020	
ADSORPTION OF POLYMERS ON SURFACES AS STUDIED BY SOLID-STATE NUCLEAR MAGNETIC RESONANCE Colorado State University	Kachel Gary	M 36 24/11/92 \$650,726	LEE 93-MC-021	
NMR STUDY OF AGRO-SILICATE AND ALUMINO-SILICATE SOL-GEL PREPARED Z-APES Pennsylvania Polytechnic Institute	Macrone Robert	M 36 24/11/92 \$462,701	D ERSTFELD 93-MC-022	

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PRESSURE DEPENDENCE OF THE RELAXATION IN NONLINEAR OPTICAL POLYMERS Univ of Maryland, Baltimore Campus	Layden	N 36 26/11/92 \$220,726	LEE 93-NC-023	
A CONFERENCE ON METAL AND OXYGEN REGULATION OF JUNE EXPRESSION Univ of Georgia	Summers	N 07 30/11/92 \$5,000	0 HEDBERG 93-NC-024	
CHEMISTRIUM ENERGETICS OF SUPERREACTIVE CHLORINE CONTAINING SPECIES ON GALLIUM ARSENIDE SURFACES Univ of California, San Diego	Kimmel	N 09 30/11/92 \$25,014	A ERSTFELD 93-NC-025	\$25,014 15/03/93 \$25,014
ELECTROCHEMISTRY OF METAL SURFACES Univ of Cincinnati	Hubbard	N 36 04/12/92 \$551,299	WILKES 93-NC-026	
1993 JORDON RESEARCH CONFERENCE ON PHYSICAL METALLURGY - MATERIALS 3F DESIGN Jordan Research Conferences Inc	Chen	N 06 04/12/92 \$6,000	ROSENSTEIN 93-NC-027	
SYNTHESIS OF CERAMICS AND CERAMIC COMPOSITES USING SPRAY COMBUSTION TECHNOLOGY Univ of California, Irvine	Lavernia	N 36 07/12/92 \$360,765	PECHEWIK 93-NC-028	
CHEMICAL VAPOR DEPOSITION OF CERAMICS SYMPOSIUM American Ceramic Society	Holbrook	N 12 07/12/92 \$5,000	PECHEWIK 93-NC-029	
INTERNATIONAL CONFERENCE ON ORGANIC NONLINEAR OPTICS I Washington State University	Kuzak	N 05 07/12/92 \$5,400	LEE 93-NC-030	
A KINETIC DESCRIPTION OF REACTIONS IN SOLID HYDROGEN Washington University	Wojcik	N 36 09/12/92 \$219,926	BERMAN 93-NC-031	

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PHOTOPHYSICS OF HIGH ENERGY DENSITY MATERIALS National Inst. of Standards & Technology	Casassa Michael	N 12 08/12/92 \$100,000	A BERMAN 93-NC-032	\$100,000 01/10/92 \$100,000
SYNTHESIS AND PROPERTIES OF NOVEL CARBOSILANE THERMOSET MATERIALS Univ of Southern California	Deber William	N 36 09/12/92 \$580,226	LEE 93-NC-033	
NANODESIGNING OF HIERARCHICAL MULTIFUNCTIONAL CERAMICS Princeton University	Aksoy Ilhan	N 36 15/12/92 \$256,972	A ERSTFELD 93-NC-034	\$256,972 01/04/93 \$1,091,804
SYNERGISTIC THERMOCHEMICAL AND MECHANICOCHEMICAL RESPONSE IN FUNCTIONALIZED POLYMER BLENDS VIA TRANSITION-METAL COORDINATION California State University	Laurence	N 36 15/12/92 \$657,719	ERSTFELD 93-NC-035	
WORKSHOP ON SYNTHESIS OF MACROMOLECULES WITH PRECISELY CONTROLLED STRUCTURES FOR MATERIALS Massachusetts Institute of Technology	Thomas Edwin	N 12 15/12/92 \$10,000	A HEDBERG 93-NC-036	\$10,000 01/03/93 \$10,000
FUNDAMENTAL CONCEPTS RELATING LOCAL ATOMIC ARRANGEMENT, DEFORMATION AND FRACTURE OF INTERMETALLIC ALLOYS Univ of Virginia	Hart John	R 12 15/12/92 \$35,955	A ROSENSTEIN 93-NC-037	\$35,955 01/04/93 \$35,955
SINGLE CRYSTAL FILMS AND HETEROPHASES OF ORGANIC MATERIALS: PREPARATION AND NONLINEAR OPTICAL PROPERTIES Lubbock University	Thacker Mrdal	N 36 15/12/92 \$192,619	A LEE 93-NC-038	\$69,128 01/04/93 \$192,618
BASIC SOLUTIONS TO CARBON/CARBON OXIDATION: SCIENCE AND TECHNOLOGY Pennsylvania State University	Harrison Tan	N 48 21/12/92 \$3,967,529	A ERSTFELD 93-NC-039	\$590,000 15/03/93 \$2,360,000
THEORY OF NONLINEAR OPTICAL POLYMERS Univ of Houston	Su Wu-Pei	N 36 22/12/92 \$133,064	BURGGRAB 93-NC-040	

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ASERT-92 SYNTHESIS AND CHARACTERIZATION OF BULK IONON SUBOXIDES Univ of Illinois	Trenary Michael	N 36 22/12/92 \$158,775	ERSTFELD 93-NC-041	
ASERT-92 ETCHING OF GaAs(100) ON THE ATOMIC SCALE Univ of California, San Diego	Kunzel Andrew	N 36 22/12/92 \$127,039	ERSTFELD 93-NC-042	
ASERT-92 HIGH TEMPERATURE STABILITY OF BINARY MICROSTRUCTURES DERIVED FROM LIQUID PRECURSORS-SUPPLEMENTAL SUPPORT Univ of California, Santa Barbara	Longo Fred	N 36 22/12/92 \$307,929	PECHEMIK 93-NC-043	
ASERT-92 EXPERIMENTAL INVESTIGATION OF ROOM VAN DER WAALS COMPLEXES Johns Hopkins University	Dandlijan Paul	N 36 22/12/92 \$94,240	BERMAN 93-NC-044	
ASERT-92 VIBRATIONAL SPECTROSCOPY AND FEMTOSECOND DYNAMICS AT LIQUID/SOLID INTERFACE Columbia University	Eisenthal Kenneth	N 36 22/12/92 \$311,300	HEDBERG 93-NC-045	
ASERT-92 IONIZATION AND ENERGY TRANSFER PROCESSES IN VIBRATIONALLY NONEQUILIBRIUM PLASMAS Ohio State University	Rice J. William	N 36 22/12/92 \$132,162	BERMAN 93-NC-046	
ASERT-92 LASER GENERATION OF HIGH ENERGY DENSITY MATERIALS IN SUPERSONIC EXPANSIONS Univ of California, Berkeley	Savitsky Richard	N 36 22/12/92 \$102,735	BERMAN 93-NC-047	
ASERT-92 BIO MINERIC MINERALIZATION OF BACTERIA Univ of Arizona	Calvert Paul	N 36 22/12/92 \$87,934	HEDBERG 93-NC-048	
ASERT-92 STATE-TO-STATE COLLISIONAL DYNAMICS OF ATMOSPHERIC SPECIES Univ of Colorado	Naslett David	N 36 23/12/92 \$120,629	BERMAN 93-NC-049	

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ASERT-92 TRANSITION METAL COMPLEX SUPERCONDUCTORS BY ELECTROCRYSTALLIZATION Univ of Florida	Reynolds John	N 36 23/12/92 \$93,594	LEE 93-MC-050	
ASERT-92 NEW ROUTES TO FLUORINATED LIGANDS AND POLYMERS Dartmouth College	Magnus Russell	N 36 23/12/92 \$151,449	MEDBERG 93-MC-051	
ASERT-92 FABRICATION OF STIMULATED MOLECULAR-LEVEL COMPOSITES Pennsylvania State University	Blancani Patricia	N 36 23/12/92 \$198,259	MEDBERG 93-MC-052	
ASERT-92 THE DESIGN OF METALLIC COMPOSITES MADE FROM NICKEL- ALUMINUM Cornell University	Radj Rishi	N 36 23/12/92 \$166,903	ROSENSTEIN 93-MC-053	
ASERT-92 SPECTROSCOPIC STUDIES OF METAL CONDENSATION Univ of Georgia	Duncan Michael	N 36 23/12/92 \$126,030	BERMAN 93-MC-054	
ASERT-92 ANIONICALLY-CONDUCTIVE ULTRATHIN FILM COMPOSITE MEMBRANES Colorado State University	Martin Charles	N 36 23/12/92 \$100,965	WILKES 93-MC-055	
ASERT-92 GAS PHASE STUDIES OF BORON, SILICON, AND ALUMINUM- IMPLEMENTATION OF TRIPLE Univ of Colorado at Denver	Barbauer Robert	N 36 23/12/92 \$89,598	ERSTFELD 93-MC-056	
ASERT-92 STATE-SELECTED ION-MOLECULE REACTIONS Stanford University	Zare Richard	N 36 23/12/92 \$102,346	BERMAN 93-MC-057	
ASERT-92 NEW FLUOROKETYL AND FLUOROKARYL COMPOUNDS AS STABLE FLUIDS OR FLUID PRECURSORS Univ of Idaho	Shreeve Jeanine	N 36 23/12/92 \$181,051	MEDBERG 93-MC-058	

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TITLE TITLE (CONT.) (INSTITUTION)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ASERT-92 SYNTHESIS AND PROPERTIES OF COMPLEX POLYARYLENE VINYLENES Univ of Massachusetts	Karasz	N 36 23/12/92 \$189,142	LEE 93-NC-059	
ASERT-92 MECHANICAL TOUNGHEING OF MAGNETIC AND ELECTROCERAMICS Univ of New Mexico	Jelison	N 36 23/12/92 \$104,449	PECHEMIK 93-NC-060	
ASERT-92 SYNTHESIS OF NEW HIGH-ENERGY FUELS BASED ON STRAINED- RING COMPOUNDS Univ of Pennsylvania	Dailey	N 36 23/12/92 \$192,225	BERMAN 93-NC-061	
ASERT-92 ALL-OPTICAL POLYMER FILLED DEVICES Washington State University	Kuzak	N 36 23/12/92 \$116,535	LEE 93-NC-062	
ASERT-92 THEORETICAL STUDIES OF CHEMICAL PROCESSES ON SURFACES California State University	Raff	N 36 23/12/92 \$89,382	BURGGRAF 93-NC-163	
ASERT-92 SURFACE SCIENCE RESEARCH TRAINING Univ of Chicago	Sibener	N 36 23/12/92 \$129,268	ERSTFELD 93-NC-064	
ASERT-92 THEORETICAL STUDIES OF REACTION SURFACES COWA STATE UNIVERSITY	Gordon	N 36 24/12/92 \$120,600	BALL 93-NC-065	
ASERT-92 NEW LOW TEMPERATURE ROUTES TO SEMICONDUCTOR MATERIALS North Dakota State University	Boudjouk	N 36 24/12/92 \$150,000	HEBERG 93-NC-066	
ASERT-92 REACTIVE ION SCATTERING AND DEPOSITION: THE ROLE OF MULTI-CHANNEL CHARGE TRANSFER Cornell University	Casper	N 36 24/12/92 \$172,330	ERSTFELD 93-NC-067	

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N 36 26/12/92 \$103,224	BERMAN 93-MC-068	

TITLE
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 INSTITUTION
 INVESTIGATOR
 LEONE
 Stephen
 JPL of Colorado
 BASREF-92 REACTIONS OF ATMOSPHERIC CLUSTER IONS

REPORT DATE 01/01/93
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 TITLE CONTROL
 INSTITUTION

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 36 05/10/92 \$291,105	POMRENKE 93-ME-001	
N 12 05/10/92 \$6,000	CRAIG 93-ME-002	
N 36 05/10/92 \$333,762	CRAIG 93-ME-003	
N 36 06/10/92 \$404,322	POMRENKE 93-ME-005	
N 24 07/10/92 \$124,529	SCHLOSSER 93-ME-006	\$277,973 01/02/93 \$275,884
R 12 13/10/92 \$275,884	A BARKER 93-ME-008	\$211,535 01/02/93 \$211,535
R 12 13/10/92 \$211,535	A BARKER 93-ME-009	\$197,050 13/10/92 \$197,050
N 12 13/10/92 \$197,050	A BARKER 93-ME-010	\$90,000 01/03/93 \$90,000
R 12 14/10/92 \$90,000	A BARKER 93-ME-011	

THE RESPONSE OF CHARGE CARPERS CONFINED IN LOW-DIMENSIONAL LAYERS
 TO EXTERNAL FIELDS AND LIGHT
 FRANKFURT, INSTITUTE FOR ANGEWANDTE PHYSIK

INVESTIGATOR

ULFRIED

OPTICAL SIGNAL PROCESSING AND HOLOGRAPHY

Borden Research Conference Inc

CONCLUSIONS

Alexander

OPTICS IN PARALLEL SHARED MEMORY COMPUTING

John of Southern California

Jenkins

Keith

MANUFACTURED PICO-SECOND P-TYPE COMPOSITE STUDIES FOR OPTICAL
 RADIATION DETECTION IN 3-5 μ M WAVELENGTH RANGE
 Stanford University

Clayton

COMPARATIVE BACKSCATTERING OF OPTICAL AND X-RAY RADIATION

John of Toledo

Slavov

Henry

IONOSPHERIC AND SOLAR WIND INTERACTIONS

Research Institute of Technology

Marini

Vittorio

POSITIVELY PULSED BACKSCATTERED-WAVE OSCILLATION INVESTIGATIONS

John of New Mexico

Schmittman

Ed

SPACETIME PHYSICS (LNL 00A-90-0001)

Los Alamos Nat'l Lab--Appl Theor Phys Div

Miller

Warner

COMPACT MILLIMETER-WAVE DEVICES: WIDEBAND GYRATOR, NEGATIVE
 ENERGY GUN, CARM, CYCLOTRON AND JITTERED HARMONIC CYCLOTRON
 John of California, Los Angeles

Neville

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REPERIMENTARY OF FERNARY SIZED ALLOYS ON ST FOR BIPOLAR TRANSISTORS Arizona State University	Waver	N 36 15/10/92 \$1,500,000	A MITT 93-NE-012	\$250,000 01/04/93 \$1,499,592
MICROWAVE PROPAGATION AND ATTENUATION IN MAGNETOPLASMAS Massachusetts Institute of Technology	Lae	R 12 16/10/92 \$50,000	A BARKER 93-NE-013	\$50,000 01/12/92 \$50,000
COLLISIONAL PROCESSES INVOLVING ATMOSPHERIC GASES Univ of Wisconsin	Lin	R 36 19/10/92 \$320,869	A KELLEY 93-NE-014	\$99,878 01/08/93 \$320,869
LASER THREE-DIMENSIONAL PROCESSING MIT -- Lincoln Lab	Emilich	N 36 20/10/92 \$285,153	SCHLOSSER 93-NE-015	
HOLOGRAPHIC STORAGE AND PROCESSING FOR VERY LARGE RELATIONAL DATABASES Colorado State University	Wicks	N 36 20/10/92 \$240,139	CRAIG 93-NE-016	
ORGANIZATION OF THE 1993 PHOTONICS SCIENCE TOPICAL MEETINGS Optical Society of America	Julian	N 12 23/10/92 \$145,000	A SCHLOSSER 93-NE-017	\$97,500 01/02/93 \$97,500
BASIC RESEARCH IN MICROWAVE-PLASMA INTERACTION Polytechnic University	Kuo	N 36 23/10/92 \$511,251	A BARKER 93-NE-018	
NINTH INTERDISCIPLINARY LASER SCIENCE CONFERENCE (ILS-IX) Univ of Arizona	Payzhaevarian	N 12 26/10/92 \$6,000	KELLEY 93-NE-020	
A STUDY OF AMORPHOUS MATERIALS AND INTERACTING TUNNELING DIPOLES AND QUANTUM DOTS Purdue Polytechnic Institute	Clavin	N 24 29/10/92 \$139,374	POMRENKE 93-NE-021	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DISTRIBUTED FIBER OPTIC SENSORS USING HOLOGRAPHIC TECHNIQUES Univ of Colorado	Anderson Dana	N 36 04/11/92 \$569,505	SCHLOSSER 93-NE-023	\$140,000 01/06/93 \$432,000
OPTICAL METROLOGY OF MAGNETICALLY TRAPPED HYDROGEN Massachusetts Institute of Technology	Kleppner Daniel	N 36 09/11/92 \$432,000	A KELLEY 93-NE-024	\$50,583 01/05/93 \$158,700
ATOMIC PROCESSES RELATED TO ANTIMATTER PRODUCTION AND STORAGE Univ of Western Ontario	Mitchell J. B. A.	N 36 09/11/92 \$158,700	A KELLEY 93-NE-025	\$50,583 01/05/93 \$158,700
WIMBLES TERA-HERTZ PHOTODETECTORS AND PULSE GENERATORS ON INGAAS AND SICE Univ of Minnesota	Choi Stephen	N 36 13/11/92 \$381,366	D WITT 93-NE-026	
IN AND SB BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES California Institute of Technology	McGill T	R 36 13/11/92 \$497,152	POMRENKE 93-NE-027	
RELATIVISTIC AND CORRELATION EFFECTS OF THE SPECIFIC MASS SHIFT IN ATOMS USING B-SPLINES Michigan Technological University	Parzer Warren	N 36 13/11/92 \$196,485	D KELLEY 93-NE-028	
CHEMISORPTION ENERGETICS OF SUPERREACTIVE CHLORINE CONTAINING SPECIES ON GALLIUM ARSENIDE SURFACES Univ of California, La Jolla	Turney Andrea	R 8 13/11/92 \$25,014	POMRENKE 93-NE-029	
ABSORPTION OF THE INTERACTION OF RADIATION WITH MATTER: TRANSIENT SPECTROSCOPY OF COLD ATOMS AND ATOMIC VAPORS New York University	Soreen Paul	N 36 13/11/92 \$303,000	D KELLEY 93-NE-030	
MRS SYMPOSIUM: PURE EARTH DOPED SEMICONDUCTORS Materials Research Society	Ballance John	N 36 13/11/92 \$17,576	A POMRENKE 93-NE-031	\$17,576 01/02/93 \$17,576

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HYBRID CYCLOTRON WAVE TUBE OPERATING AT CYCLOTRON HARMONIC FREQUENCIES Univ of Maryland	Granatstein Victor	R 12 16/11/92 \$45,000	A BARKER 93-NE-032	\$45,000 15/03/93 \$45,000
PARTICIPANT SUPPORT FOR THE TWENTIETH INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS Univ of Oregon	Donnelly Russell	N 12 23/11/92 \$10,000	D WEINSTOCK 93-NE-033	
MAGNETIC FIELD INDUCED STRUCTURAL PHASE TRANSITIONS IN RARE EARTH COMPOUNDS WITH COOPERATIVE JAH-TELLER EFFECTS Boston University	Zimmerman George	N 36 23/11/92 \$362,262	WEINSTOCK 93-NE-034	
TWENTIETH ANNUAL CONFERENCE ON THE PHYSICS AND CHEMISTRY OF SEMICONDUCTOR INTERFACES Kerox Webster Research Center	Brillson L. J.	N 12 23/11/92 \$14,500	POMRENKE 93-NE-035	
SUBJECT-ORIENTED FORMULATIONS FOR PARTICLE-IN-CELL (PIC) PLASMA George Mason University	Rine David	R 36 24/11/92 \$30,000	A BARKER 93-NE-036	\$29,901 01/09/93 \$90,000
MANUSCRIPT PROCESSING AND ATOMISTIC KINETICS OF LATTICE MISMATCHED GROWTH ON SUBMICRON MESAS Univ of Southern California	Madhukar Anupam	N 42 24/11/92 \$927,200	POMRENKE 93-NE-037	
ADVANCED X-RAY ANALYTICAL INSTRUMENTATION RESEARCH Advanced Research and Applications Corp	Koppel Lou	N 36 24/11/92 \$810,145	A SCHLOSSER 93-NE-038	\$186,103 01/04/93 \$810,144
A STUDY OF EFFICIENT PLASMA SOURCES Conorville College	Rader Mark	N 36 24/11/92 \$581,486	A BARKER 93-NE-039	\$188,451 01/04/93 \$581,486
HIGH POWER, HIGH FREQUENCY RADIATION FROM REM-PLASMA INTERACTIONS Univ of California, Irvine	Sanford Gregory	R 12 30/11/92 \$79,930	A BARKER 93-NE-040	\$79,930 01/05/93 \$79,930

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
POINT SPREAD MATRICES OF PHASE MODULATING SPATIAL LIGHT MODULATORS Univ of Alabama	Chiswan Russell	N 24 02/12/92 \$121,872	CRAIG 93-NE-041	\$131,677 01/04/93 \$263,353
MULTILAYER X-RAY OPTICS Univ of Arizona	Salco Charles	N 36 07/12/92 \$830,467	A SCHLOSSBER 93-NE-042	\$60,025 01/04/93 \$60,025
TIME-RESOLVED, HIGH-RESOLUTION, X-RAY MICROSCOPY OF IN-VITRO BIOLOGICAL & LIFE SCIENCE SPECIMENS WITH THE AID OF LASER PLASMAS Univ of Central Florida	Richardson Martin	N 12 07/12/92 \$60,025	A SCHLOSSBER 93-NE-043	\$60,025 01/04/93 \$60,025
ASYNCHRONOUS FREQUENCY MODULATED WAVES IN A RING LASER Colorado School of Mines	Kowalski Frank	N 24 07/12/92 \$162,345	SCHLOSSBER 93-NE-044	\$134,864 01/07/93 \$134,864
RECOMBINATION, ELECTRON-EXCITED ATOM COLLISIONS AND ION-MOLECULE REACTIONS Georgia Tech Research Corporation	Flannery Martin	R 12 09/12/92 \$134,864	A KELLEY 93-NE-045	\$310,000 01/04/93 \$991,995
ANTI-PROTON STUDIES AND MASS SPECTROSCOPY Harvard University	Gabrielse Serald	N 36 08/12/92 \$991,995	A KELLEY 93-NE-046	\$12,530 01/04/93 \$12,530
INTERNATIONAL CONFERENCE ON NOISE IN PHYSICAL SYSTEMS AND I/F NOISE Univ of Missouri	Handel Peter	N 12 08/12/92 \$78,750	D WITT 93-NE-047	\$12,530 01/04/93 \$12,530
LOW TEMPERATURE GROWN AND HIGHLY NON-STOICHIOMETRIC GASES AND RELAT ED MATERIALS Materials Research Society	Ballance John	N 12 09/12/92 \$12,530	A WITT 93-NE-048	\$12,530 01/04/93 \$12,530
HIGH-PERFORMANCE AND LOW-COST OPTICAL INTERCONNECTS Univ of Colorado	Hoff John	N 12 09/12/92 \$46,451	CRAIG 93-NE-049	

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EXPERT SYSTEM FOR CONTROL OF PLASMA, BEAM AND WAVE DYNAMICS IN MICROWAVE TUBES Unicon Electron Devices	Siablis John	N 36 10/12/92 \$750,752	A BARKER 93-NE-050	\$125,256 01/04/93 \$750,752
JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA RESEARCH Mission Research Corp	Soellen Bruce	R 36 10/12/92 \$839,213	A BARKER 93-NE-051	\$117,678 01/06/93 \$839,213
THE TENTH INTERNATIONAL CONFERENCE ON THE ELECTRONIC PROPERTIES OF FAB-DIMENSIONAL SYSTEMS Brown University	Muralik Arto	N 18 11/12/92 \$7,000	D WITT 93-NE-052	
PICOSECOND X-RAY SPECTROSCOPY Washington State University	Murnane Margaret	N 36 11/12/92 \$123,009	A SCHLOSSER 93-NE-053	\$40,000 01/04/93 \$123,009
ADVANCED INSTRUMENTATION & MEASUREMENTS FOR EARLY NONDESTRUCTIVE EVALUATION OF DAMAGE & DEFECTS IN AEROSTRUCTURES & AGING AIRCRAFT Vanderbilt University	Wiksmo John	N 48 14/12/92 \$1,466,588	A WEINSTOCK 93-NE-054	\$366,647 15/03/93 \$1,466,588
ADVANCED INSTRUMENTATION & MEASUREMENTS FOR EARLY NONDESTRUCTIVE EVALUATION OF DAMAGE & DEFECTS IN AEROSTRUCTURES & AGING AIRCRAFT Northeastern University	Achenbach Jan	N 48 14/12/92 \$333,412	A WEINSTOCK 93-NE-055	\$233,353 15/03/93 \$333,412
MBE GROWTH AND CHARACTERIZATION OF ZINC OLENCE JAN AND JAN/AIN STRUCTURES Oklahoma State University	Song J	N 36 15/12/92 \$507,624	POMRENKE 93-NE-056	
A SMITH-PURCELL FREE ELECTRON LASER BASED ON A MICROWAVE ELECTRON GUN: ANALYSIS AND EXPERIMENTS Univ of New Mexico	Brueck Steven	N 36 16/12/92 \$511,904	SCHLOSSER 93-NE-058	
HIGH DENSITY AND COMPACT WAVEGUIDE USING GE AND GAAS Rutgers, The State University	Lu Yicheng	N 12 16/12/92 \$50,000	CRAIG 93-NE-059	

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(MURI) ENVIRONMENTAL DEGRADATION/FATIGUE IN AIRCRAFT STRUCTURAL MATERIALS: RELATIONSHIP BETWEEN ENVIRONMENTAL DUTY/COMPONENT LIFE Massachusetts Institute of Technology	Rechts	N 36 17/12/92 \$2,400,000	A WEINSTOCK 93-NE-060	\$600,000 15/03/93 \$2,400,000
HIGH POWER MICROWAVE GENERATOR Texas Tech University	Kristiansen	R 12 17/12/92 \$49,977	A BARKER 93-NE-061	\$49,977 15/03/93 \$49,977
INVESTIGATION OF A RELATIVISTIC KLYSTRON SCHEME Texas Tech University	Ziener	R 12 21/12/92 \$162,127	A BARKER 93-NE-062	\$101,826 01/04/93 \$101,826
INTERACTION OF ELECTROMAGNETIC FIELDS WITH MAGNETIZED PLASMAS Univ of Tennessee	Rechts	R 12 21/12/92 \$34,891	A BARKER 93-NE-063	\$34,891 01/04/93 \$34,891
(ASERT-92) FEMTOSECOND LASER PROBE OF NON-THERMAL ELECTRONIC TRANSPORT AND IMPLEMENTATION OF THE CNM UNIVERSAL CHIP Univ of California, Berkeley	Chenming	N 36 22/12/92 \$380,908	SMITH 93-NE-064	
(ASERT-92) TRANSPORT PROCESSES IN PLASMAS Rutgers, The State University	Joel	N 36 22/12/92 \$134,437	BARKER 93-NE-065	
(ASERT-92) HIGH POWER, HIGH FREQUENCY RADIATION FROM REAM-PLASMA INTERACTION Univ of California, Irvine	Gregory	N 36 22/12/92 \$154,630	BARKER 93-NE-066	
(ASERT-92) REQUEST FOR ADDITIONAL GRADUATE STUDENT FOR STUDIES OF PLASMA LOADED BACKWARD WAVE OSCILLATORS Univ of Maryland	Granatstein	N 36 22/12/92 \$221,948	BARKER 93-NE-067	
(ASERT-92) OBJECT-ORIENTED FORMULATIONS OF PARTICLE-IN-CELL (PIC) PLASMA SIMULATIONS Univ of California, Berkeley	Charles	N 36 22/12/92 \$139,265	BARKER 93-NE-068	

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CAASERT-22) SLOTTED HIGH-HARMONIC Univ of California, Los Angeles	Luhmann, Jr Novillo	N 36 22/12/92 \$151,312	BARKER 93-NE-069	
CAASERT-23) NEGATIVE-ENERGY CYCLOTRON RESONANCE MASTER Univ of California, Los Angeles	Luhmann, Jr Novillo	N 36 22/12/92 \$151,312	BARKER 93-NE-070	
CAASERT-22) DEVELOPMENT OF A TRANSPARENT INTERNAL PROBE DIAGNOSTIC Univ of Washington	Jarboe Thomas	N 36 22/12/92 \$138,523	BARKER 93-NE-071	
CAASERT-22) GRADUATE STUDENT RESEARCH ON MICROWAVE SOURCES Univ of Michigan	Siljandach Ronald	N 36 22/12/92 \$100,410	BARKER 93-NE-072	
CAASERT-22) OBJECT-ORIENTED FORMULATIONS FOR PARTICLE-IN-CELL (PIC) PLASMA SIMULATIONS Georgia Mason University	Alia George	N 36 22/12/92 \$264,058	BARKER 93-NE-073	
CAASERT-22) ENHANCEMENT OPPORTUNITIES FOR MINORITY GRADUATE STUDENTS Univ of Tennessee	Alaseoff Lior	N 36 22/12/92 \$168,743	BARKER 93-NE-074	
CAASERT-22) MICROWAVE ABSORPTION AND REFLECTION FROM ULTRAVIOLET LASER AND ELECTRON CYCLOTRON RESONANCE PRODUCED PLASMAS Univ of Wisconsin	Schneor John	N 36 22/12/92 \$171,065	BARKER 93-NE-075	
CAASERT-22) STUDENT SUPPORT FOR CARBIDE SURFACE STUDIES -Infield Research Institute	Davis Paul	N 36 22/12/92 \$105,120	BARKER 93-NE-076	
CAASERT-22) EXPERIMENTAL STUDIES OF PLASMA TURBULENCE Massachusetts Institute of Technology	Lee Min-Chang	N 36 22/12/92 \$313,425	BARKER 93-NE-077	

1,387
1,792
1,387

1,000
13,793
1,000

1,000
12,793
1,000

3,877
25,793
6,380

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CAASERT-92) GRADUATE AND UNDERGRADUATE STUDENT SUPPORT TO STUDY PLASMA ION MOLECULE CHEMISTRY Univ of Utah	Arnetout Peter	N 36 23/12/92 \$77,742	BARKER 93-NE-078	
CAASERT-92) ELECTRICAL AND THERMAL STABILITY OF ATOMICALLY SHARP SILICON EMITTERS AT HIGH ELECTRIC FIELDS Pennsylvania State University	Cutter Paul	N 36 23/12/92 \$99,730	BARKER 93-NE-079	
CAASERT-92) EFFECTS OF JELF FIELDS ON THE THRESHOLD OF THE GYRO BACKWARD WAVE OSCILLATION Univ of California Los Angeles	Lin Anthony	N 36 23/12/92 \$98,399	BARKER 93-NE-080	
CAASERT-92) ARSENIC CLUSTER ENGINEERING FOR HIGH SPEED PHOTONIC CONDUCTORS Jardue University	Malloch Michael	N 36 23/12/92 \$108,004	WITT 93-NE-081	
CAASERT-92) ELECTROMAGNETIC SIMULATION OF THREE-DIMENSIONAL MMIC STRUCTURES & PACKAGES Bright State University	Maishadnan Krishna	N 36 23/12/92 \$125,404	WITT 93-NE-082	
CAASERT-92) LOW-TEMPERATURE III-V SEMICONDUCTORS Univ of California, La Jolla	TU Charles	N 36 23/12/92 \$88,315	WITT 93-NE-083	
CAASERT-92) FOCUSED-ION-BEAM MICRO-MACHINING OF OPTICAL SURFACES FOR SEMICONDUCTOR LASER AND AMPLIFIERS Oregon Graduate Institute of Sci & Tech	Deffoez Richard	N 36 23/12/92 \$174,624	WITT 93-NE-084	
CAASERT-92) CHEMICAL BEAM EPITAXIAL GROWTH OF INGaP/InP HETERO-ST RUCTURES FOR QUANTUM WELL INFRARED PHOTO DETECTOR/OPTOELECTRONIC Univ of Illinois	Stillman Gregory	N 36 23/12/92 \$161,235	WITT 93-NE-085	
CAASERT-92) RADIATION-INDUCED DEGRADATION OF POWER MOSFETS AND TVALUOUS CMOS AT 300 K AND 77 K Univ of Arizona	R. Schniepp K. Galloway	N 36 23/12/92 \$121,996	WITT 93-NE-086	

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(AASERT-92) MINIATURIZED ELECTROMAGNETIC SENSORS FOR EMPM
Georgia Institute of Tech John
N 36
23/12/92
\$168,968 WITT
93-NE-087

(AASERT-92) BALLISTIC ELECTRON EMISSION MICROSCOPY FOR IMPROVING
SCHOTTKY-BARRIER IR DETECTORS
Rensselaer Polytechnic Institute Leo
N 36
23/12/92
\$117,755 WITT
93-NE-088

(AASERT-92) STUDIES OF LATTICE-MISMATCHED AND LOW-TEMPERATURE-
GROWN SEMICONDUCTOR MULTIPLE-PHASE SYSTEMS
Univ of California, Berkeley John
N 36
23/12/92
\$160,674 WITT
93-NE-089

(AASERT-92) ADVANCES IN LASER COOLING
State University of New York Harold
N 36
23/12/92
\$127,209 KELLEY
93-NE-090

(AASERT-92) ELECTRON IMPACT IONIZATION AND DISSOCIATION OF
MOLECULES USED IN PLASMA ETCHING AND DEPOSITION OF SEMICONDUCTORS
California Institute of Technology Vincent
N 36
23/12/92
\$141,464 KELLEY
93-NE-091

(AASERT-92) ATOM INTERFEROMETRY AND NEW COOLING METHODS
Stanford University Steven
N 36
23/12/92
\$231,513 KELLEY
93-NE-092

(AASERT-92) ULTRA PRECISE LASER SPECTROSCOPY
Massachusetts Institute of Technology Daniel
N 36
23/12/92
\$144,000 KELLEY
93-NE-093

(AASERT-92) ORGANIC SUPERCONDUCTORS IN HIGH MAGNETIC FIELDS
Clark University Charles
N 36
23/12/92
\$95,896 WEINSTOCK
93-NE-094

(AASERT-92) SPATIALLY-RESOLVED SPECTROSCOPY AND IMAGING OF
MAGNETIC NANOSTRUCTURES
Univ of California, Santa Barbara David
N 36
23/12/92
\$148,279 WEINSTOCK
93-NE-095

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(AASERT-92) BOUNDARY EFFECTS IN HIGH-TEC SUPERCONDUCTING DEVICES Stanford University	Kapitulnik Aharon	N 36 23/12/92 \$150,092	WEINSTOCK 93-NE-096	
(AASERT-92) ON-CHIP INTEGRATION OF VLSI AND SI Univ of California, La Jolla	Dynas Robert	N 36 23/12/92 \$98,559	WEINSTOCK 93-NE-097	
(AASERT-92) STUDENT TRAINING IN HIGH-TEMPERATURE SUPERCONDUCTING ELECTRONICS Univ of Rochester	Sobolewski Roman	N 36 23/12/92 \$123,140	WEINSTOCK 93-NE-098	
(AASERT) MOLECULAR MANUFACTURING OF ELECTRONIC SOLIDS Univ of Colorado	Douglas Kenneth	N 36 23/12/92 \$149,981	WEINSTOCK 93-NE-099	
(AASERT-92) SYNTHESIS AND CHARACTERIZATION OF CUO SUPERCONDUCTORS WITH ANOMALOUS TRANSITIONS ABOVE 200K Wayne State University	Zenger Lowell	N 36 23/12/92 \$148,975	WEINSTOCK 93-NE-100	
(AASERT-92) HIGH RESOLUTION SQUID MODE OF MAGNETIC AND NON-MAGNETIC AIRCRAFT COMPONENTS Vanderbilt University	Wicksno John	N 36 23/12/92 \$149,975	WEINSTOCK 93-NE-101	
(AASERT-92) BASIC OPTICAL STUDIES OF ELECTRON-DOPED HIGH TC OXIDE SUPERCONDUCTORS Massachusetts Institute of Technology	Dresselhaus Mildred	N 36 23/12/92 \$139,273	WEINSTOCK 93-NE-102	
(AASERT-92) FIELD-EFFECT-CONTROLLED, COULOMB-BLOCKADE SINGLE-ELECTRON TRANSISTOR IN SILICON Massachusetts Institute of Technology	Antoniadis Dimitri	N 36 24/12/92 \$226,798	WITT 93-NE-103	
(AASERT-92) AVALANCHE COLLISION DYNAMICS IN ATOMIC SYSTEMS Univ of Michigan	Zang Stephen	N 36 24/12/92 \$128,497	SCHLOSSBER 93-NE-104	

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CAASERT-92) X-RAYS FROM HIGH INTENSITY SHORT PULSE INTERACTIONS Univ of California, Berkeley	Salcone Roger	N 36 24/12/92 \$229,168	SCHLOSSBER 93-NE-105	
CAASERT-92) ENHANCEMENT OF QUANTUM WELL NONLINEARITIES Tufts University	Kalkey Paul	N 36 24/12/92 \$165,121	SCHLOSSBER 93-NE-106	
CAASERT-92) DEVELOPMENT OF A NEW HIGH-RESOLUTION OPTIC FOR SOFT-X-RAY IMAGING Univ of Central Florida	Silvest William	N 36 24/12/92 \$115,965	SCHLOSSBER 93-NE-107	
CAASERT-92) COHERENT PHOTON MODULATION OF THE ELECTRONIC PROPERTIES OF NARROW-GAP MATERIALS Massachusetts Institute of Technology	Ipden Erich	N 36 24/12/92 \$150,000	SCHLOSSBER 93-NE-108	
CAASERT-92) NONLINEAR OPTICAL PHENOMENA IN NONLINEAR RANDOM MEDIA City University of New York	Alfano Robert	N 36 28/12/92 \$119,687	SCHLOSSBER 93-NE-109	
CAASERT-92) INJECTION LOCKING AND INSTABILITIES OF VERTICAL-CAVITY SURFACE-EMITTING LASERS Univ of Arizona	Knitrova Galina	N 36 28/12/92 \$68,239	SCHLOSSBER 93-NE-110	
CAASERT-92) PICOSECOND X-RAY PHOTOEMISSION Washington State University	Munnane Margaret	N 36 23/12/92 \$91,329	SCHLOSSBER 93-NE-111	
CAASERT-92) VISIBLE LASERS IN FIBERS AND WAVEGUIDES: NEW X-RAY GENERATING TARGETS Univ of Illinois	Ejer J. Gray	N 36 28/12/92 \$165,904	SCHLOSSBER 93-NE-112	
CAASERT-92) IMAGING/COLLECTING OF SPATIALLY STRUCTURED ARRAYS OF ULTRASHORT PULSES FOR ULTRAHIGH INFORMATION RATE OPTICS: NUMERICAL Tansselaer Polytechnic Institute	Forc Richard	N 36 28/12/92 \$131,304	SCHLOSSBER 93-NE-113	

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CAASERT-92) PERMANENT 24 RADIATION FROM ELECTRO-OPTICS CRYSTALS	INANG	XI-CHENG	N	36	SCHLOSSBER	93-NE-114	28/12/92	\$257,331
Rensselaer Polytechnic Institute								
CAASERT-92) ENHANCED MEASUREMENT TECHNIQUES FOR DIODE RING LASERS	JOSEPH	JOSEPH	N	36	SCHLOSSBER	93-NE-115	28/12/92	\$175,359
Cornell University								
CAASERT-92) DEVELOPMENT OF MOVING PISK NO:YAG AND Nd:YAG LASERS PUMPED BY PULSED DIODE LASERS	KUSHADANA	VIKRAM	N	36	SCHLOSSBER	93-NE-116	28/12/92	\$172,551
Howard University								
CAASERT-92) PHYSICS/OPTOELECTRONIC APPLICATIONS OF PHOTONIC BAND STRUCTURES	VALLOU	KEVIN	N	36	SCHLOSSBER	93-NE-117	28/12/92	\$121,869
Univ of New Mexico								
CAASERT-92) DESIGN FOR RELIABILITY: CURRENT ESTIMATION FOR ELECTROMIGRATION, HOT-CARRIER AND VOLTAGE-DROP	TAJJ	TORAHLE	N	36	POMRENKE	93-NE-118	28/12/92	\$94,729
Univ of Illinois								
CAASERT-92) PHOTOREFRACTION AS A DIAGNOSTIC TOOL FOR COMPOUND SEMICONDUCTORS	SALAMA	GREGORY	N	36	POMRENKE	93-NE-119	28/12/92	\$152,847
Univ of Arkansas								
CAASERT-92) COULOMB EFFECTS IN RESONANTLY COUPLED QUANTUM WAVEGUIDES	BOJAD	WOLFQANG	N	36	POMRENKE	93-NE-120	28/12/92	\$202,823
Univ of Notre Dame								
CAASERT-92) GROWTH AND CHARACTERIZATION OF SEMICONDUCTOR EPILAYERS FOR HIGH TEMPERATURE ELECTRONICS	SKORONSKI	MAREK	N	36	POMRENKE	93-NE-121	28/12/92	\$166,323
Carnegie-Mellon University								
CAASERT-92) LASER PUMPING OF III-V AND II-VI SEMICONDUCTOR GROWTH	LEONE	STEPHEN	N	36	POMRENKE	93-NE-122	28/12/92	\$115,478
Univ of Colorado								

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CAASERT-32) STUDENT SUPPORT FOR OPTOELECTRONIC WRE RESEARCH Colorado State University	Robinson Gary	N 36 28/12/92 \$128,500	POMRENKE 93-NE-123	
CAASERT-32) STUDIES OF SURFACE PROCESSES DURING GROWTH OF EPITAXIAL GERM NITRIDE Carnegie-Mellon University	Grove David	N 36 29/12/92 \$135,293	POMRENKE 93-NE-124	
CAASERT-32) SUBWAVELENGTH SPATIAL RESOLUTION DIAGNOSTICS OF VISIBLE AND IR SELF-EMITTING STRUCTURES AND FIELDS Cornell University	Isaacson Michael	N 36 29/12/92 \$176,019	POMRENKE 93-NE-125	
CAASERT-32) WRE GROWTH AND CHARACTERIZATION OF JAWAIN STRUCTURES UNDER HYDROSTATIC PRESSURE Alabama State University	Fauststein Robert	N 36 28/12/92 \$109,072	POMRENKE 93-NE-126	
CAASERT-32) ELECTRICAL PROPERTIES OF BLUE LASER DIODES Purdue Research Foundation	Junshor Robert	N 36 29/12/92 \$315,960	POMRENKE 93-NE-127	
CAASERT-32) INDIUM AND ANTIMONY BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES California Institute of Technology	McGill Thomas	N 36 29/12/92 \$160,288	POMRENKE 93-NE-128	
CAASERT-32) SIM STUDIES ELECTROMIGRATION Univ of Minnesota	Cohen Phillip	N 36 29/12/92 \$214,037	POMRENKE 93-NE-129	
CAASERT-32) LUMINESCENCE PROPERTIES OF RARE EARTH DOPED SEMICONDUCTORS Univ of Colorado	Fauststein Robert	N 36 29/12/92 \$182,275	POMRENKE 93-NE-130	
CAASERT-32) LARGE SIGNAL CHARACTERIZATION MODELING OF HETEROJUNCTION BIPOLAR TRANSISTORS Michigan University	Wang James	N 36 28/12/92 \$233,941	POMRENKE 93-NE-131	

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CAASERT-92) OPTICAL EMISSION FROM DOPED SIZE ALLOYS AND SUPERLATTICES Univ of Rochester	Hall Dennis	N 36 28/12/92 \$114,900	POMBENKE 93-ME-132	
CAASERT-92) PROPERTIES OF WIDE BANDGAP SEMICONDUCTORS THAT AFFECT PERFORMANCE OF UV DETECTORS AND LED'S Univ of Pittsburgh	Choyke Holman	N 36 28/12/92 \$94,399	POMBENKE 93-ME-133	
1.3 MICROMETER FIBER PHOTODETECTOR Rensselaer Polytechnic Institute	Zhang Xi-Cheng	N 12 29/12/92 \$24,983	A SCHLOSSER 93-ME-134	\$6,847 01/05/93 \$24,983
COHERENT OPTOELECTRONIC MEASUREMENT OF SEMICONDUCTORS Rensselaer Polytechnic Institute	Zhang Xi-Cheng	N 36 29/12/92 \$224,271	SCHLOSSER 93-ME-135	
RESEARCH ON XUV LASERS AND APPLICATIONS Rice University	Young James	R 36 29/12/92 \$400,453	SCHLOSSER 93-ME-136	
PHOTODISSOCIATION OF ATOMS AND ATOMIC NEGATIVE IONS Univ of Central Florida	Saha Y.	N 24 29/12/92 \$118,092	KELLEY 93-ME-137	
1993 GORDON RESEARCH CONFERENCE ON NONLINEAR OPTICS AND LASERS Gordon Research Conferences Inc	Cruickshank A	N 12 29/12/92 \$10,000	A SCHLOSSER 93-ME-138	\$10,000 01/04/93 \$10,000
FORTY-SIXTH ANNUAL GASEOUS ELECTRONICS CONFERENCE Universite De Montreal	Molson Michel	N 12 30/12/92 \$9,000	KELLEY 93-ME-139	
CAASERT-92) MOLOGRAPHIC STUDY OF AVOINICS Rorcester Polytechnic Institute	oryputniewicz Ryszard	N 36 30/12/92 \$409,082	WEINSTOCK 93-ME-140	

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TYPICALLY COMPRESSED MICROWAVES FOR IMPULSED RADAR APPLICATIONS Univ of Rochester	Donaldson William	N 36 30/12/92 \$577,706	BARKER 93-NE-141	
(CASERT-92) DEMONSTRATION OF OPTICAL CORRELATION FOR SENSOR IMAGERY Florida Institute of Technology	Kozlitis Samuel	N 36 31/12/92 \$26,637	CRAIG 93-NE-142	
(CASERT-92) ORGANIC POLYMER OPTICAL JAVESQUES AND DEVICES: PART I MATERIAL CONSIDERATIONS: PART II: MODELLING Washington University	Krenshaw Robert	N 36 31/12/92 \$185,764	CRAIG 93-NE-143	
(CASERT-92) ADDITIONAL STUDIES OF EXTREMELY HIGH FREQUENCY ELECTRO-OPTIC MODULATORS AND THEIR APPLICATIONS California Institute of Technology	Triggs William	N 36 31/12/92 \$136,042	CRAIG 93-NE-144	
(CASERT-92) NOVEL PHOTONIC DEVICES FABRICATED ON (GIL)-ORIENTED TAAS AND INP SUBSTRATES Univ of Virginia	Yoo Ellis	N 36 31/12/92 \$290,361	CRAIG 93-NE-145	
(CASERT-92) DYNAMICS OF ANTI-GUIDED LASER ARRAYS Univ of Michigan	Zanful Herbert	N 36 31/12/92 \$102,049	CRAIG 93-NE-146	
(CASERT-92) ARCHITECTURAL STUDIES ON INTERFACING PARALLEL OPTICAL STORAGE SYSTEMS WITH PROCESSORS Univ of California, La Jolla	Zaner Sadik	N 36 31/12/92 \$85,552	CRAIG 93-NE-147	
(CASERT-92) GRADUATE STUDENT SUPPORT FOR RESEARCH IN 3-D OPTICAL DISKS California Institute of Technology	Zalitis Demetri	N 36 31/12/92 \$105,315	CRAIG 93-NE-148	
(CASERT-92) ARRAYS OF EFFICIENT ENTRY-ENTRY MODULATORS FOR OPTICAL PROCESSING Univ of California, Santa Barbara	Zoldren Larry	N 36 31/12/92 \$137,128	CRAIG 93-NE-149	

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CAASERT-32) STUDY OF ELECTRON PHYSICS IN CROSSED FIELD AMPLIFIERS Northeastern University	Chen	N 36 31/12/92 \$239,735	BARKER 93-NE-150	
CAASERT-32) OPTOELECTRONIC IMPLEMENTATION OF WDM NETWORK PROTOCOLS Univ of North Carolina	Krabbeley	N 36 31/12/92 \$101,132	CRAIG 93-NE-151	
CAASERT-32) DEVELOPMENT OF LONG WAVELENGTH MODULATORS ON GaAs FOR VERTICALLY-ACCESSED CIRCUITS Univ of California, La Jolla	Esenar	N 36 31/12/92 \$93,300	CRAIG 93-NE-152	
CAASERT-32) NOVEL SCHEME FOR AN OPTICAL TRANSISTOR Univ of Central Florida	Stegeman	N 36 31/12/92 \$167,429	CRAIG 93-NE-153	
CAASERT-32) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODE Univ of California, Berkeley	Liu	N 36 31/12/92 \$160,474	CRAIG 93-NE-154	
CAASERT-32) RESEARCH IN MICRO-CAVITY SURFACE EMITTING LASER DIODES Univ of California, Berkeley	Smith	N 36 31/12/92 \$160,474	CRAIG 93-NE-155	
CAASERT-32) DEVELOPMENT OF FREE-SPACE OPTOELECTRONIC NEURAL SYSTEMS BASED ON HYBRID SIGNAL TECHNOLOGY Univ of California, La Jolla	Esenar	N 36 31/12/92 \$85,552	CRAIG 93-NE-156	

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ADAPTIVE ESTIMATION APPROXIMATION OF CONTINUOUSLY VARYING SPECTRAL DENSITY FUNCTIONS WITH APPLICATION TO AIRBORNE RADAR Texas Tech University	Erol	N 11 07/10/92 \$101,900	A BOLAND 93-MI-001	\$101,900 01/10/92 \$101,900
VIROUSMAL RNA PROSES FOR JREAPLASMA JREALYTICUM Univ of Scranton	Delvecchio	N 08 08/10/92 \$68,321	A BOLAND 93-MI-002	\$68,321 01/10/92 \$68,321
OPTICAL STUDIES OF HIGH TEMPERATURE SUPERCONDUCTORS Massachusetts Institute of Technology	Gene	N 04 08/10/92 \$13,900	A BOLAND 93-MI-003	\$13,900 01/10/92 \$13,900
A NOVEL METHOD FOR THE PRODUCTION OF CONDUCTIVE LAYERS IN INGERP2 Univ of Cincinnati	Kesel	N 09 15/10/92 \$75,001	A BOLAND 93-MI-004	\$75,001 01/10/92 \$75,001
ALL HIGH-TO SUPERCONDUCTOR-INSULATOR-SUPERCONDUCTOR STRUCTURES Massachusetts Institute of Technology	Paul	R 05 23/10/92 \$16,204	A BOLAND 93-MI-005	\$16,204 01/10/92 \$16,204
MIDBAND ANTENNA ARRAYS - AN ARRAY OF SLEEVE MONOPOLES OVER A GROUNDPLANE Univ of New Hampshire	Kandagunta	R 10 23/10/92 \$28,004	A BOLAND 93-MI-006	\$28,004 01/10/92 \$28,004
A STUDY OF AMORPHOUS & GLASSY MATERIALS WITH POSSIBLE APPLICATION TO HIGH TEMPERATURE SUPERCONDUCTORS Forrester Polytechnic Institute	Michael	R 03 25/10/92 \$27,206	A BOLAND 93-MI-007	\$27,206 01/10/92 \$27,206
REDUCED ORDER H-INFINITY COMPENSATOR DESIGN Washington State University	Chin	R 03 02/11/92 \$25,726	A BOLAND 93-MI-008	\$25,726 01/10/92 \$25,726
MODELING FOR HIGH VOLTAGE SYSTEM IN THE SPACE ENVIRONMENT Massachusetts Institute of Technology	Daniel	N 12 03/11/92 \$90,964	A BOLAND 93-MI-009	\$90,964 01/07/93 \$90,964

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PERFORMANCE STUDY OF ADAPTIVE FILTERING WITH EMBEDDED ROBUST CFAR IN NONHOMOGENEOUS ENVIRONMENT Syracuse University	Wang Hong	N 12 24/11/92 \$66,556	A BOLAND 93-NI-010	\$54,995 01/12/92 \$66,556
MICROWAVE EFFECTS IN HIGH TEMPERATURE SUPERCONDUCTING VJCO THIN FILM DEVICES AND JOSEPHSON JUNK JUNCTIONS Northeastern University	Jiang Hua	N 12 24/11/92 \$49,720	A BOLAND 93-NI-011	\$45,576 01/01/93 \$49,720

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COMPUTATIONAL VISION BASED ON NEUROBIOLOGY				
SPIE - International Soc for Optical Enginng	Montonve	N 09 01/10/92 \$20,000	TANGNEY 93-NL-001	
AUDITORY PATTERN PERCEPTION AND GROUP SIGNAL DETECTION				
Univ of Florida	Sorkin	N 48 31/10/92 \$419,650	TANGNEY 93-NL-002	
VISUAL PERCEPTION: COMPUTATION AND PSYCHOPHYSICS				
Univ of Minnesota	Knill	N 06 01/10/92 \$9,982	A TANGNEY 93-NL-003	\$9,982 01/01/93 \$9,982
INFORMATION CONTENT OF THE OBSERVATIONS FROM THE SPECIAL SENSOR MI CROWAVE/TEMPERATURE-2				
Texas A and M Research Foundation	Albrecht	N 36 02/10/92 \$254,243	STOBIE 93-NL-004	
NUMERICAL COMPUTATION OF THE COMPLETE SCATTERING MATRIX AND SIMULA TION OF THE HETERODYNE POLARIMETRIC TECHNIQUE				
Catholic University of America	Herbert	N 36 02/10/92 \$213,162	STOBIE 93-NL-005	
THE PRECIPITATION OF HIGH ENERGY ELECTRONS INTO THE ATMOSPHERE				
Lockheed Missiles & Space Co Inc	Isaacs	N 36 02/10/92 \$240,000	STOBIE 93-NL-006	
AN INFORMATIONAL APPROACH TO SKILL TRANSFER				
Univ of Illinois	Lintern	N 36 02/10/92 \$285,385	TANGNEY 93-NL-007	
PERCEPTUAL CONSTRAINTS IN UNDERSTANDING PHYSICAL DYNAMICS				
Univ of Virginia	Proffitt	N 60 15/10/92 \$762,866	TANGNEY 93-NL-008	
RE-EVALUATION OF EVASION POSSIBILITIES FOR JET-COOLED NUCLEAR REACTO RS IN THE FORMER SOVIET UNION AND IN KEY COUNTRIES THAT MAY TEST				
Colorado University	Lynn	N 24 15/10/92 \$289,099	DICKINSON 93-NL-009	

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PHASE-SHIFTING EFFECT OF LIGHT AND ACTIVITY ON THE HUMAN CIRCADIAN CLOCK Univ of Chicago	Van Cauter Eve	R 12 22/10/92 \$157,747	A HADDAD 93-NL-010	\$150,000 01/03/93 \$150,000
THE ROLE OF NEAR-SOURCE PHENOMENOLOGY ON REGIONAL SEISMIC OBSERVAT IONS Southern Methodist University	Staud Brian	N 24 02/11/92 \$153,925	A DICKINSON 93-NL-011	\$94,586 01/02/93 \$153,925
COMPLEX OBJECT AND SCENE PERCEPTION Michigan State University	Henderson John	N 36 05/11/92 \$287,078	TANGNEY 93-NL-012	
READING: INTERACTION WITH MEMORY Northwestern University	McKoon Gail	R 36 05/11/92 \$252,126	TANGNEY 93-NL-013	
REMOTE SENSING OF PRECIPITATION AND ELECTRIFICATION WITH A DUAL- POLARIZATION, COHERENT, PULSED RADAR SYSTEM New Mexico Institute of Mining and Tech	Krenbiel Paul	R 06 06/11/92 \$100,000	A STOBIE 93-NL-014	\$100,000 15/01/93 \$100,000
DEVELOPING GUIDED SEARCH 3.0: THE NEXT GENERATION OF A MODEL OF VISUAL SEARCH Brigham & Women's Hospital	Wolfe Jeremy	N 36 06/11/92 \$316,376	TANGNEY 93-NL-015	
THE CENTRAL EXECUTIVE COMPONENT OF WORKING MEMORY ARC Applied Psychology Unit	Baddeley Alan	R 36 06/11/92 \$350,846	TANGNEY 93-NL-016	
COGNITION AND THE BRAIN: CORTICAL ACTIVITY ASSOCIATED WITH COGNITIVE TASKS New York University	Kaufman Lloyd	N 36 06/11/92 \$82,826	TANGNEY 93-NL-017	
INDIVIDUAL DIFFERENCES IN EXPLICIT AND IMPLICIT MEMORY Univ of Texas	Young Robert	R 16 07/11/92 \$49,449	TANGNEY 93-NL-018	

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PERCEPTION WITHOUT ATTENTION	WACC	N 36 09/11/92 \$658,575	TANGNEY 93-NL-019	
New School for Social Research				
SPATIAL LEARNING AND COGNITIVE MAPPING: A NEURAL NETWORK APPROACH	Schwartz	N 36 09/11/92 \$393,952	TANGNEY 93-NL-020	
Columbia College				
DEMODULATION PROCESSES IN AUDITORY PERCEPTION	Feth	R 36 09/11/92 \$496,315	TANGNEY 93-NL-021	
Ohio State Univ Research Foundation				
SHAPE RECOGNITION AND FIGURE-GROUND ORGANIZATION: THE SHARP MODEL OF FIGURE-GROUND ORGANIZATION	Peterson	N 12 10/11/92 \$32,387	A TANGNEY 93-NL-022	\$32,387 01/11/92 \$32,387
Univ of Arizona				
ALT-AZ SURVEYING: SENSOR EVALUATION: PLUTO AND CARSON	Carroll	N 12 13/11/92 \$300,000	A R400SKI 93-NL-023	\$300,000 01/03/93 \$300,000
Univ of Arizona				
SITUATIONAL AWARENESS FOR COMPLEX SYSTEM OPERATIONS	Willson	N 12 13/11/92 \$14,000	A TANGNEY 93-NL-024	\$10,000 01/02/93 \$10,000
Univ of Central Florida				
CELLULAR INTERACTIONS IN THE SUPRACORTICAL NUCLEUS	van den Pol	R 36 19/11/92 \$634,380	A H40040 93-NL-025	\$210,877 01/05/93 \$634,380
Fala University School of Medicine				
EEG PATTERN RECOGNITION OF INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITIES	Levins	R 36 20/11/92 \$599,399	TANGNEY 93-NL-026	
Sae Technology, Inc.				
COGNITIVE FACTORS IN AUTOMATED INSTRUCTION FOR INDIVIDUALS AND GROUPS	Shedden	N 12 20/11/92 \$77,777	TANGNEY 93-NL-027	
Texas A and M University				

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BORDON RESEARCH CONFERENCE ON CHRONOBIOLOGY Univ of Mass Medical Center	Schwartz William	N 12 23/11/92 \$6,000	HADDAD 93-NL-028	
THE ROLES OF RELATIVE DISPARITY AND VERGENCE IN THE PERCEPTION OF INCLINED SURFACES Yale University	Howard Tan	N 36 23/11/92 \$309,132	COLLINS 93-NL-029	
INDIVIDUAL DIFFERENCES IN SPATIAL DISORIENTATION AND PERCEPTUAL AD APTATION Essex Corporation	Kennedy Robert	N 36 23/11/92 \$326,581	COLLINS 93-NL-030	
REDUCTION OF NAUSEA AND DISORIENTATION WHEN EXPOSED TO A MOVING VI SUAL FIELD St Michael Hospital	Johnson Walter	N 24 30/11/92 \$157,000	COLLINS 93-NL-031	
ANALYSIS OF MESOSPHERIC WINDS AND WAVES Iowa State University	Miller Kent	N 12 30/11/92 \$61,570	STOBIE 93-NL-032	
CELLULAR NEUROPHYSIOLOGY OF THE RAT SUPRACHIASMATIC NUCLEUS: ELECT RICAL PROPERTIES, NEUROTRANSMISSION, & MECHANISMS OF SYNCHRONIZA tion Colorado State University	Judek F. Edward	R 36 30/11/92 \$744,632	HADDAD 93-NL-033	\$125,000 01/03/93 \$125,000
CONTROL OF CIRCADIAN BEHAVIOR BY TRANSPLANTED SUPRACHIASMATIC NUCLEI Univ of Virginia	Yankee Michael	R 12 03/12/92 \$137,730	HADDAD 93-NL-034	
STOP-DOWN INFLUENCES ON VISUAL PROCESSING: PSYCHOPHYSICS AND COMP UTATION Massachusetts Institute of Technology	Richards Whitman	R 36 04/12/92 \$311,736	TANGMEY 93-NL-035	
ALDEHYDE PRODUCTS OF LIPOID PEROXIDATION IN THE RETINA GENERATED BY ENVIRONMENTAL TOXINS Kentons State University	van Kulk Frederick	N 36 04/12/92 \$355,945	KOZUMBO 93-NL-036	

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DIMENSIONALITY REDUCTION FOR VISUALIZATION AND INTERPRETATION OF M ULTRAVIOLET SPECTROSCOPICAL DATA OF VARYING PHYSICAL & TEMPORAL-- Eastern Washington University	Landis	R 36 04/12/92 \$429,782	KOZUMBO 93-NL-037	
IN VIVO AND IN VITRO ASSESSMENT OF THE HEPATOTOXICITY OF PERHALOGE NATED ALKANES Univ of Surrey	Gibson	N 36 04/12/92 \$929,782	KOZUMBO 93-NL-038	
NMR CHARACTERIZATION OF POLYMERS FORMED IN DIARYLIZING MIXTURES OF LUMINOL AND 3-AMINO-L-TYROSINE Southeastern Oklahoma St U-Phys Sci Dpt	Wright	R 12 04/12/92 \$47,644	KOZUMBO 93-NL-039	
MOLECULAR MECHANISMS OF BIOSYNTHESIS OF METAL-BINDING PHYTOCHELATE S Univ of California, Riverside	Mehra	N 36 04/12/92 \$368,593	KOZUMBO 93-NL-040	
DEGRADATION OF PENTACHLOROPHENYL IN PSEUDOMONAS SP. RA-2 AND PHODOCOCUS CHLOROPHENOLICUS: PATHWAYS AND GENETICS Univ of Colorado	Cooley	N 36 04/12/92 \$449,222	KOZUMBO 93-NL-041	
REACTIVE OXYGEN SPECIES, STRESS PROTEIN, PROTEIN KINASE C AND THE IN THE TOXICITY OF POLYHALOGENATED CYCLIC HYDROCARBONS (PCH) Creighton University	Stens	R 36 04/12/92 \$321,732	KOZUMBO 93-NL-042	
MICROBIAL DETOXIFICATION OF CARBONIUM Univ of Kentucky	Mans	N 36 08/12/92 \$363,985	KOZUMBO 93-NL-043	
VENT-GENERATION AUTOMATED COGNITIVE SKILL TRAINING: PROBLEMS, SOL -S, AND APPROACHES Research Development Corporation	Leddo	N 12 16/12/92 \$199,034	TANGMEY 93-NL-044	
VISUALLY GUIDED NAVIGATION Univ of California, Berkeley	Jones	N 36 17/12/92 \$639,551	COLLINS 93-NL-045	

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SPACE PERCEPTION WITH NORMAL AND PROSTHETIC VISION Cufgers - The State University	Radami Iitznak	N 36 18/12/92 \$312,209	COLLINS 93-NL-046	
VISUO-OULAR PERFORMANCE DURING VESTIBULAR STIMULATION Univ of Pittsburgh	Joseph M. R. Furman	N 36 18/12/92 \$537,017	COLLINS 93-NL-047	
EXTRATHALAMIC MODULATION OF CORTICAL RESPONSIVENESS Univ of California, San Diego	Scott Stephen	N 36 21/12/92 \$676,976	HADDOAD 93-NL-048	
THE BIOLOGY AND CHEMISTRY OF VISION Stanford University	John Lisman	N 12 22/12/92 \$10,000	TANGMEY 93-NL-049	
LASERT-92 HIGH-ENERGY ELECTRON BEAM-INDUCED IONOSPHERIC MODIFICATION EXPERIMENTS Univ of Michigan	Brian Balchrist	N 36 23/12/92 \$220,135	STOBIE 93-NL-050	
LASERT-92 CHARACTERISTICS AND PHYSICS OF RAPIDLY INTENSIFYING TROPICAL CYCLONES Colorado State University	William Gray	N 36 23/12/92 \$97,565	STOBIE 93-NL-051	
LASERT-92 AUGMENTATION OF THE VECTOR SPHERICAL HARMONIC MODEL Univ of Michigan	Timothy Kalleen	N 36 23/12/92 \$217,820	STOBIE 93-NL-052	
LASERT-92 FRONT-BOUNDARY LAYER MODELS FROM STORM-FEST OBSERVATIONS Univ of Colorado	William Blumen	N 24 23/12/92 \$72,908	STOBIE 93-NL-053	
NEURAL NETWORK CORRELATES OF CONTEXT-DEPENDENT PERCEPTUAL PHENOMENA Univ of Mass Medical Center	Daniel Collen	N 36 23/12/92 \$1,348,274	TANGMEY 93-NL-054	

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IMAGE APPEARANCE AND IMAGE QUALITY PHENOMENA Scheepers Eye Research Institute	Arend	N 35 23/12/92 \$1,348,274	TANGNEY 93-NL-055	
ASASRT-92 - CHROMOSPHERIC ACTIVITY IN ALGOL BINARIES Univ of Virginia	Richards	N 36 23/12/92 \$1	RADOSKI 93-NL-056	
ASASRT-92 - THE SOLAR ACTIVITY CYCLE New Jersey Institute of Technology	Goode	N 36 24/12/92 \$170,443	RADOSKI 93-NL-057	
ASASRT-92 - CHAOTIC DYNAMICS OF THE SOLAR CYCLE Columbia University	Spiegel	N 35 24/12/92 \$247,348	RADOSKI 93-NL-058	
ASASRT-92 - HIGH ENERGY HEAVY ION ENVIRONMENT MEASURED IN THE ERRES MISSION Univ of Chicago	Simpson	N 36 24/12/92 \$130,006	RADOSKI 93-NL-059	
ASASRT-92 - MAGNETOSPHERIC STRUCTURE & DYNAMICS: A MULTISATELLITE APPROACH Boston University	W. Jeffrey Hughes	N 36 24/12/92 \$226,262	RADOSKI 93-NL-060	
ASASRT-92 - THE USE OF AF CLOUD DATA TO EVALUATE & IMPROVE CLOUD FORECAST & PARAMETERIZATION IN MESOSCALE METEOROLOGICAL MODELS State University of New York	Chris Galcer	N 36 24/12/92 \$107,311	STOBIE 93-NL-061	
ASASRT-92 SOURCE MECHANISMS AND RADIO EFFECTS OF IONOSPHERIC PLASMA DISTURBANCES Boston University	Min-Chang Lee	N 36 24/12/92 \$190,725	STOBIE 93-NL-062	
ASASRT-92 - NONLINEAR DYNAMICS APPLIED TO ATMOSPHERIC PREDICTION Florida State University	Albert Bjorklin	N 36 24/12/92 \$80,718	STOBIE 93-NL-063	

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ASERT-92 DOES THE NATURE OF INTERACTIVE TOXICITY DEPEND ON THE LEVEL OF EFFECT? Drexel University	Yass Charles	N 36 30/12/92 \$51,981	KOZUMBO 93-NL-064	
ASERT-92 OBSERVATIONAL ANALYSIS OF THE ORIGIN OF NON-DOUBLE COUPLE SEISMIC SOURCES Univ of Texas	Franklin Clifford	N 36 30/12/92 \$115,451	DICKINSON 93-NL-065	
ASERT-92 PERCEPTION OF AUDITORY EVENTS: ATTENTIONAL LIMITATIONS Purdue University	Pastore Richard	N 36 30/12/92 \$102,525	TANCNEY 93-NL-066	
ASERT-92 TRAINING SITUATION AWARENESS IN VIRTUAL ENVIRONMENTS Univ of Washington	Farness Thomas	N 36 30/12/92 \$181,691	TANCNEY 93-NL-067	
ORGANIZATION OF THE HUMAN CIRCAIDIAN SYSTEM Univ of Pittsburgh	Moore Robert	R 36 30/12/92 \$605,165	HADDAD 93-NL-068	
ASERT-92 ACOUSCALE NUMERICAL PREDICTION OF LIGHTNING Colorado State University	Cotton William	N 36 31/12/92 \$115,300	STOBIE 93-NL-069	
ASERT-92 INVESTIGATION OF RADIATION BELT ELECTRONS AND LOSS OF RIN CURRENT IONS Dartmouth College	Hudson Mary	N 36 31/12/92 \$192,880	RAOOSKI 93-NL-070	
ASERT-92 PREDICTION OF CLOUD COVER WITH A GLOBAL MODEL Florida State University	Krishnaswami T	N 36 31/12/92 \$72,276	STOBIE 93-NL-071	
ASERT-92 AUGMENTATION OF RESEARCH TRAINING IN CHRONOBIOLOGY: REGULATION OF THE MAMMALIAN CIRCAIDIAN CLOCK BY NEUROTRANSMITTERS Univ of Illinois	Billette Martha	N 36 31/12/92 \$132,322	HADDAD 93-NL-072	

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ASERT-92 RESEARCH TRAINING FOR UNDERSTANDING THE FATE OF ENVIRONMENTAL POLLUTANTS Cornell University	Madson Eugene	N 36 31/12/92 \$215,327	KOZUMBO 93-NL-073	
ASERT-92 AN IMPERMISSIVE MODEL SYSTEM FOR INSITU EVALUATIONS OF ECOLOGICAL RISK IN PETROCHEMICAL-CONTAMINATED TERRESTRIAL ENVIR. Delaware State University	Locheiller Robert	N 36 31/12/92 \$14,721	KOZUMBO 93-NL-074	
ASERT-92 INTERDISCIPLINARY TRAINING IN VISUAL SCIENCES Rutgers - The State University	Kowler Eileen	N 36 31/12/92 \$305,877	COLLINS 93-NL-075	
ASERT-92 A SYSTEMATIC METHOD OF UNCERTAINTY REDUCTION FOR COMPLEX SOUND PERCEPTION Indiana University/Bryan Hall	Watson Charles	N 36 31/12/92 \$66,636	TANGNEY 93-NL-076	
ASERT-92 WHISTLER WAVE PHENOMENA: EXPERIMENT AND THEORY Columbia University	Snattscarjee Amitava	N 36 31/12/92 \$229,975	RADOSKI 93-NL-077	
ASERT-92 GRADUATE TRAINING IN RESEARCH ON INDIVIDUAL DIFFERENCES IN SKILLED PERFORMANCE Univ of Utah	Woltz Dan	N 36 31/12/92 \$97,646	TANGNEY 93-NL-078	
ASERT-92 AUGMENTATION PROPOSAL FOR DEVELOPMENT OF HYPEROESTROGENIC AND INVERSE METHODS Boston University	Sandra Guido v.	N 36 31/12/92 \$160,522	STOBIE 93-NL-079	
ASERT-92 DIGITAL PLANIMETRIC MAP OF COLIV AFB Univ of Florida	Saith Scot	N 24 31/12/92 \$50,000	KOZUMBO 93-NL-080	

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FORWARD TECHNOLOGICAL APPLICATION OF NON-NEWTONIAN FLUIDS & COMPLEX MATERIALS/MODELLING, SIMULATION, & DESIGN OF EXPERIMENTS Ohio State Univ Research Foundation	M.	N 36 07/10/92 \$275,564	NACHMAN 93-NM-001	\$240,912 30/11/92 \$240,912
SURFACE MODELING AND FAST PDE SOLVERS IN MANUFACTURING	Dahlberg	N 36 08/10/92 \$717,939	A GLASSMAN 93-NM-003	\$112,140 01/03/93 \$289,166
HIGH PERFORMANCE COMPUTING (HPC) METHODS AND SYSTEMS FOR PARTIAL DIFFERENTIAL EQUATIONS Jurdue Research Foundation	Rice	R 24 08/10/92 \$142,133	A GLASSMAN 93-NM-004	\$239,000 30/11/92 \$693,000
FLOW AND CYCLE COVERS-RESEARCH IN GRAPH THEORY	Lai	N 24 08/10/92 \$77,391	GLASSMAN 93-NM-005	\$78,994 30/11/92 \$262,981
MATHEMATICAL MODELING FOR SIMULATION AND CONTROL OF SEMICONDUCTOR PROCESSING Arizona State University	Croun	N 36 09/10/92 \$693,000	A JACOBS 93-NM-006	\$245,000 30/11/92 \$738,000
DEVELOPING MODEL BASED CONTROL STRATEGIES FOR HOT ISOSTATIC PRESSING Wayne State University	Li	N 36 09/10/92 \$262,381	A JACOBS 93-NM-007	\$239,048 15/04/93 \$360,982
NUMERICAL MODELING FOR CRYSTAL GROWTH	Strain	N 36 14/10/92 \$104,330	A JACOBS 93-NM-008	\$32,460 01/07/93 \$104,330
ADVANCED MATHEMATICAL MODELS FOR STRUCTURAL SYSTEMS Washington University	Szabo	N 36 15/10/92 \$738,000	A JACOBS 93-NM-009	\$245,000 30/11/92 \$738,000
AN INTERACTIVE, INTELLIGENT TUTORING SYSTEM FOR PREDICTION TASKS Univ of Texas	Porter	N 36 15/10/92 \$359,985	A WAKSMAN 93-NM-010	\$239,048 15/04/93 \$360,982

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COMPUTATIONAL METHODS FOR PDES IN FLOW CONTROL, SUPERCONDUCTIVITY FLUID FLOWS, AND OTHER APPLICATIONS Virginia Polytechnic Inst & State Univ	Gundaburger Max	R 12 19/10/92 \$110,000	A JACOBS 93-NM-011	\$110,000 01/12/92 \$110,000
APPLICATIONS OF SIGNAL PROCESSING, FAST ALGORITHMS, AND MULTIVARIABLE CONTROL TO SEMICONDUCTOR MANUFACTURING Stanford University	Thomas Thomas	N 36 23/10/92 \$2,736,772	A JACOBS 93-NM-012	\$888,854 01/01/93 \$2,536,772
STUDY OF COMBUSTION INSTABILITIES IN STAGNATION POINT FLOWS Old Dominion University	Jackson Thomas	N 24 26/10/92 \$44,045	NACHMAN 93-NM-013	
PARALLEL SOLUTION OF LARGE-SCALE NONLINEAR OPTIMIZATION RESEARCH Univ of Minnesota	Rosen J.	N 08 27/10/92 \$49,573	A GLASSMAN 93-NM-014	\$49,573 01/02/93 \$49,573
TRANSIENT CHAOS IN SPACECRAFT ATTITUDE MANEUVERS DUE TO A CLASS OF NON-HAMILTONIAN PERTURBATIONS Univ of Wisconsin	Kanner Daniel	N 36 27/10/92 \$190,150	NACHMAN 93-NM-015	
DIAGNOSTIC TOOLS & ALGORITHMS FOR MINIMUM COST FLOWS MODELS Massachusetts Institute of Technology	Orlin James	R 12 27/10/92 \$93,006	GLASSMAN 93-NM-016	
INVERSE PROBLEMS FOR SEMICONDUCTOR EQUATIONS East Virginia University	Fang Welfu	N 36 27/10/92 \$79,168	NACHMAN 93-NM-017	
SOME ISSUES IN NONLINEAR PROGRAMMING ALGORITHMS FOR PROBLEMS WITH SIMULATION CONSTRAINTS Rice University	Gennis, Jr. John	N 24 27/10/92 \$300,000	A GLASSMAN 93-NM-018	\$150,000 01/01/93 \$300,000
NUMERICAL METHODS FOR SIMULTANEOUSLY PERTURBED DIFFERENTIAL EQUATIONS WITH APPLICATIONS Pennsylvania Polytechnic Institute	Flannery Joseon	N 12 28/10/92 \$90,000	A JACOBS 93-NM-019	\$90,000 01/04/93 \$90,000

TITLE (TITLE CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
RECOVERY OF THE SINGULARITIES OF A FUNCTION FROM THE SINGULARITIES OF ITS RADON TRANSFORM Kansas State University	Ross Alexander	N 36 29/10/92 \$167,727	NACHMAN 93-NM-020	
CRACK PROPAGATION IN LINEAR & NONLINEAR VISCOELASTIC MATERIAL	Dalton Jay	N 36 03/11/92 \$81,000	A NACHMAN 93-NM-021	\$25,000 01/06/93 \$81,000
DIRECT & INVERSE SCATTERING IN ACOUSTICS & ELECTROMAGNETICS	Valenberg Soris	N 24 03/11/92 \$112,083	NACHMAN 93-NM-022	
SPEECH SIGNAL PROCESSING VIA FOURIER-BESSEL SERIES EXPANSION	Schroeder James	N 12 03/11/92 \$67,470	SJOGREN 93-NM-023	
ON SOME CONTROL PROBLEMS OF MIXING IN A FLOW	Stevadi Masrollah	N 36 04/11/92 \$139,719	JACOBS 93-NM-024	
ROBUST CONTROL: A TIME-DOMAIN QFT BASED ON FIXED POINTS & HOMOTOPIC INVARIANCE IN L	Barnard Robert	N 24 04/11/92 \$112,659	JACOBS 93-NM-025	
LOW ORDER H-INFINITY CONTROL LAW SYNTHESIS VIA GENERALIZED BOUNDED REAL LEMMA	Hsu Chin	N 36 04/11/92 \$129,585	JACOBS 93-NM-026	
CONCURRENT ADAPTIVE METHODS FOR REACTION-DIFFUSION SYSTEMS	Van de Velde Eric	N 36 04/11/92 \$642,525	JACOBS 93-NM-027	
MULTIPROCESSOR FILE SYSTEMS	Kotz David	N 36 04/11/92 \$153,420	SUDDARTH 93-NM-028	

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RESEARCH INITIATIVE IN INTELLIGENT TUTORING SYSTEMS Univ of Massachusetts	Woolf	N 36 05/11/92 \$1,542,711	WAKSMAN 93-NM-029	
ON THE DESIGN & ANALYSIS OF NETWORKS WITH NODE FAILURES Univ of Texas	Jaillet	N 24 05/11/92 \$1	GLASSMAN 93-NM-030	
JERUSALEM COMBINATORICS-93 CONFERENCE Arizona State University	Barcelo	N 12 05/11/92 \$18,330	GLASSMAN 93-NM-031	
STATISTICAL MODELS & INFERENCES FOR RELIABILITY GROWTH, ACCELERATED LIFE TESTS & MULTICOMPONENT CENSORED DATA Univ of Wisconsin	Johnson	N 36 05/11/92 \$235,083	SJOGREN 93-NM-032	
WORKSHOP ON NEW OPTIMIZATION TECHNIQUES FOR LARGE COMPOUNDS Iowa State Univ of Science and Tech	Schmidt	N 12 10/11/92 \$25,600	A GLASSMAN 93-NM-033	\$25,600 01/01/93 \$25,600
MATHEMATICAL ASPECTS OF HYPERSONIC BOUNDARY LAYERS & JETS City College - CUNY	Papageorgiou	N 36 10/11/92 \$151,169	NACHMAN 93-NM-034	
IN-SERVICE BIT-ERROR-RATE MEASUREMENT IN COMMUNICATION NETWORKS New Mexico Highlands University	Zillic	N 24 10/11/92 \$478,624	SJOGREN 93-NM-035	
INTEGER NETWORKS WITH SIDE CONSTRAINTS: ALGORITHMS AND APPLICATIONS Southern Methodist University	Kennington	R 12 12/11/92 \$60,000	A GLASSMAN 93-NM-036	\$60,000 01/01/92 \$60,000
SELF-SIMILARITY IN TRANSIENT STIMULATED RAMAN SCATTERING Univ of Maryland, Baltimore County	Menyuk	N 12 11/11/92 \$1,000	NACHMAN 93-NM-037	

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ESTIMATION WITH MULTISENSOR-MULTISCAN DETECTION FUSION Univ of Connecticut	Gar-Shaloe Yaakov	R 12 17/11/92 \$54,957	A GLASSMAN 93-NM-038	\$27,478 01/03/93 \$54,957
STRUCTURAL & SYSTEM THEORETICAL STUDY ON STATIC & TEMPORAL NEURAL MODELS Princeton University	Kung Sun-Yuang	N 24 18/11/92 \$326,835	SUDDARTH 93-NM-039	
THE NORTH AMERICAN MEETING OF NEW RESEARCHERS IN STATISTICS AND PROBABILITY Institute of Mathematical Statistics	Volin Deborah	N 12 24/11/92 \$30,750	SJOGREN 93-NM-041	
EVOLVING NEURAL NETWORKS FOR NONLINEAR CONTROL George Mason University	Ylitz Kenneth	N 36 24/11/92 \$389,074	A SUDDARTH 93-NM-042	\$129,750 01/03/93 \$389,074
SOLVING INTEGER PROGRAMMING PROBLEMS USING AN INTEGRATED POINT METHOD WITHIN A BRANCH-&-CUT FRAMEWORK Massachusetts Institute of Technology	Mitchell John	N 36 24/11/92 \$216,162	GLASSMAN 93-NM-043	
LEARNING MANEUVERS USING NEURAL NETWORK MODELS Massachusetts Institute of Technology	Atkeson Christopher	N 36 24/11/92 \$497,812	A SUDDARTH 93-NM-044	\$159,473 01/04/93 \$497,812
REINFORCEMENT LEARNING FOR NEURAL NETWORK CONTROL OF INTELLIGENT AIRCRAFT VEHICLES Oregon Graduate Institute	Woody John	N 36 24/11/92 \$466,005	SUDDARTH 93-NM-045	
GLOBAL OPTIMIZATION OF CONSTRAINED NONLINEAR FUNCTIONS Univ of North Carolina	Macnabedicz Zbigniew	N 36 24/11/92 \$154,597	GLASSMAN 93-NM-046	
BROAD-BASED HIGH-FREQUENCY JET ENGINE CONTROL Georgia Institute of Tech	Nett Carl	N 36 24/11/92 \$765,006	A JACOBS 93-NM-047	\$255,002 01/10/93 \$765,006

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OPTIMIZATION PROBLEMS IN MULTISENSOR/MULTITARGET TRACKING Colorado State University	Poore Aubrey	R 24 27/11/92 \$106,275	A GLASSMAN 93-NM-048	\$49,430 01/02/93 \$106,057
NONSMOOTH OPTIMIZATION ALGORITHMS AND SOFTWARE TOOLS Univ of California, Berkeley	Polak Elijan	N 12 27/11/92 \$75,000	A JACOBS 93-NM-049	\$75,000 01/03/93 \$75,000
THEORETICAL AND COMPUTATIONAL INVESTIGATION OF NONLINEAR DYNAMICAL AND CHAOTIC PROPERTIES OF PLASMAS Stanpton University	Variable William	N 36 30/11/92 \$510,000	NACHMAN 93-NM-050	
STABILITY OF DYNAMICAL SYSTEMS IN THE PRESENCE OF NOISE Northwestern University	Pinsky Mark	N 12 30/11/92 \$15,000	A SJOGREN 93-NM-051	\$15,000 07/12/92 \$15,000
ADAPTIVE CONTROL OF NONLINEAR MULTIVARIABLE SYSTEMS USING NEURAL NETWORKS Yale University	Varandra Kuspati	N 36 01/12/92 \$120,000	SUDDARTH 93-NM-052	
CODING, SIGNAL DESIGN, & SIGNAL PROCESSING FOR NON-GAUSSIAN CHANNELS Princeton University	Poor H. Vincent	N 12 01/12/92 \$82,790	SJOGREN 93-NM-053	
INTERNATIONAL SYMPOSIUM ON ORDINARY DIFFERENTIAL EQUATIONS AND APPLICATIONS Eastern Michigan University	Alavi Yousef	N 12 07/12/92 \$35,635	NACHMAN 93-NM-054	
INVESTIGATIONS IN FUZZY QUANTIFICATION, USUALITY, & LIKELIHOOD Florida State University	Scheartz Daniel	N 36 07/12/92 \$188,800	WAKSMAN 93-NM-055	
INTEGRATION OF APPRENTICE & REINFORCEMENT LEARNING Univ of Massachusetts	Utgoff Paul	N 36 07/12/92 \$141,280	WAKSMAN 93-NM-056	

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CIRCUIT COVERS & INTEGER FLOWS--RESEARCH IN GRAPH THEORY West Virginia University	Zhang Cun-Quan	N 24 07/12/92 \$81,734	GLASSMAN 93-NM-057	
NONLINEAR PROBLEMS OF SOLID MECHANICS Univ of Maryland	Antean Stuart	N 36 07/12/92 \$538,187	NACHMAN 93-NM-058	
MACHINE VISION THROUGH MACHINE LEARNING George Mason University	Michalski Ryszard	R 36 07/12/92 \$938,046	A WAKSMAN 93-NM-059	\$300,000 01/04/93 \$938,046
PHASE AND AMPLITUDE CONTROLLED NEURAL ANTENNA Florida Institute of Technology	Thursoy Michael	N 12 15/12/92 \$50,000	A SUDDARTH 93-NM-060	\$50,000 01/04/93 \$50,000
GLOBAL BEHAVIORAL APPROACH TO ADAPTIVE NEURAL NETWORKS Univ of Massachusetts	Donahoe John	N 36 15/12/92 \$176,783	SUDDARTH 93-NM-061	
2D HAMILTONIAN PROBLEMS IN FLUID DYNAMICS Pennsylvania Polytechnic Institute	Lia CnJan	N 48 16/12/92 \$339,426	NACHMAN 93-NM-062	
FOUNDATIONS OF COMBINATORIAL SEARCH METHODS Univ of Colorado	Glover Fred	R 07 18/12/92 \$80,040	A GLASSMAN 93-NM-063	\$80,040 01/06/93 \$80,040
GRAY II SUPPORT FOR OTHER 2304/CS INSTRUMENTS Air Force Weapons Lab	Burnette Howard	N 12 21/12/92 \$100,000	A JACOBS 93-NM-064	\$100,000 01/10/92 \$100,000
SOME PROBLEMS IN SURVIVAL DISTRIBUTIONS AND RELIABILITY New Jersey Institute of Technology	Shattacnarjee Manish	N 12 23/12/92 \$52,156	SJOGREN 93-NM-065	

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CHROMATIC SCHEDULING PROBLEMS Northeastern University	Mahadev	N 36 23/12/92 \$187,077	GLASSMAN 93-NM-066	
NONLINEAR INTERACTIONS OF FLUID VORTEX STRUCTURES WITH BLUFF BODIES Univ of California, San Diego	Kadake	N 24 23/12/92 \$116,200	MACHMAN 93-NM-067	
CONCEPTS, METHODS & TOOLS FOR DESIGNING DEPENDABLE DISTRIBUTED SYSTEMS Univ of California, San Diego	Cristian	N 29 23/12/92 \$324,943	A SUDDARTH 93-NM-068	\$206,395 01/04/93 \$324,943
BISTATIC AMBIGUITY FUNCTION FOR NON-GAUSSIAN SIGNAL CONDITIONS Rand Air Development Center	Jorak	N 12 24/12/92 \$40,000	A SJOGREN 93-NM-069	\$40,000 01/03/93 \$40,000
MULTISCALE SURVEILLANCE INFORMATION ACQUISITION AND FUSION AND FUSION Univ of Minnesota	Teetlik	R 24 29/12/92 \$148,209	A SJOGREN 93-NM-070	\$49,253 01/02/93 \$148,209
THEORY & ALGORITHMS FOR NEURPY BASED INFERENCE Dartmouth College	George	N 36 29/12/92 \$346,086	A SUDDARTH 93-NM-071	\$123,494 01/04/93 \$346,086
ASERT-92/MODELING OF VISCOELASTIC JETS & FIBERS: INVERSE PROBLEMS FOR MATERIAL CHARACTERIZATION Univ State University	Gregory	N 36 30/12/92 \$52,920	MACHMAN 93-NM-072	
ASERT-92/VOID NUCLEATION & GROWTH IN NONLINEAR SOLIDS Univ of Virginia	Horgan	N 36 30/12/92 \$125,459	MACHMAN 93-NM-073	
ASERT-92/REACTIVE EXECUTION IN A COMMAND, PLANNING & CONTROL ENVIRONMENT Univ of Edinburgh	Tate	N 36 30/12/92 \$39,881	MAKSMAN 93-NM-074	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NASERT-92/APPLICATION STUDIES IN ROBUST IDENTIFICATION/CONTROL Univ of Michigan	Khargonekar Pramod	N 36 30/12/92 \$99,231	JACOBS 93-NM-075	
NASERT-92/IMAGE COMPRESSION & WAVELET GENERATION Georgia Institute of Tech	Barber Marc	N 35 30/12/92 \$112,587	NACHMAN 93-NM-076	
NASERT-92/PHOTONIC SIGNAL PROCESSING FOR MICROWAVE & RADAR SYSTEMS Stevens Institute of Technology	Zaida Henry	N 36 30/12/92 \$109,893	SJOGREN 93-NM-077	
NASERT-92/NONLINEAR CONTROL FOR CONSTRAINED SYSTEMS Univ of Michigan	Bernstein Dennis	N 36 30/12/92 \$235,777	JACOBS 93-NM-078	
NASERT-92/QUALITATIVE AUTOMATIC INTELLIGENT MATERIAL PROCESSING Univ of Cincinnati	Garrett Patrick	N 36 30/12/92 \$172,911	WAKSMAN 93-NM-079	
MODELING NEURAL MECHANISMS OF THE CONTROL OF RESPIRATION Univ of Pennsylvania	Schaeber James	N 36 30/12/92 \$377,624	A SUDDARTH 93-NM-080	\$20,000 15/03/93 \$60,000
A NEW METHOD FOR CONSTRUCTING ARTIFICIAL NEURAL NETS Rutgers, The State University	Stranderegan William	N 06 30/12/92 \$69,461	A SUDDARTH 93-NM-081	\$69,461 01/04/93 \$69,461
NASERT-92/LOCATION & PROBLEMS FOR NETWORKS Rutgers - The State University	Roberts Fred	N 36 30/12/92 \$123,663	ELASSMAN 93-NM-082	
NASERT-92/COMPUTATIONAL METHODS FOR CONTROL OF NONLINEAR FLUID/STRUCTURE PROBLEMS North Carolina State University	Banks H.	N 36 30/12/92 \$179,507	JACOBS 93-NM-083	

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NASERT-92/NUMERICAL METHODS FOR SINGULARLY PERTURBED DIFFERENTIAL EQUATIONS WITH APPLICATIONS Rensselaer Polytechnic Institute	Flaherty	N 36 31/12/92 \$111,415	JACOBS 93-NM-084	
NASERT-92/SIGNAL STRUCTURE METHODS FOR ROBUST INTERFERENCE REDUCTION IN AIRBORNE ANTENNA ARRAYS Stanford University	Golub	N 36 31/12/92 \$294,352	NACHMAN 93-NM-085	
NASERT-92/TECHNICAL DEVELOPMENT IN WAVELET & SPLINE TECHNIQUES Howard University	Rachael	N 36 31/12/92 \$232,700	JACOBS 93-NM-086	
NASERT-92/MODEL-BASED SEARCH Univ of Maryland	Rosenfeld	N 36 31/12/92 \$100,022	SJOGREN 93-NM-087	
NASERT-92/SOLVING FIXED-CHARGE NETWORK FLOW PROBLEMS VIA REFORMULATION STRATEGIES Clemson University	Adams	N 36 31/12/92 \$86,712	GLASSMAN 93-NM-088	
NASERT-92/STOCHASTIC LEARNING DYNAMICS & NONLINEAR DIMENSION Oregon Graduate Institute	Leon	N 36 31/12/92 \$259,688	SUDDARTH 93-NM-089	
NASERT-92/SOFTWARE FAULT-TOLERANCE IN DISTRIBUTED REAL-TIME SYSTEMS Texas Engineering Experiment Center	Pradhan	N 36 31/12/92 \$202,806	SUDDARTH 93-NM-090	
NASERT-92/REAL-TIME CONTROL OF REASONING Univ of Oregon	Ginsberg	N 36 31/12/92 \$189,586	WAKSMAN 93-NM-091	
NASERT-92/ADAPTIVE PHASED ARRAY RADAR SIGNAL PROCESSING USING PHOTOREFRACTIVE VOLUME HOLOGRAMS Univ of Colorado	Wagner	N 36 31/12/92 \$144,500	SJOGREN 93-NM-092	