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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT



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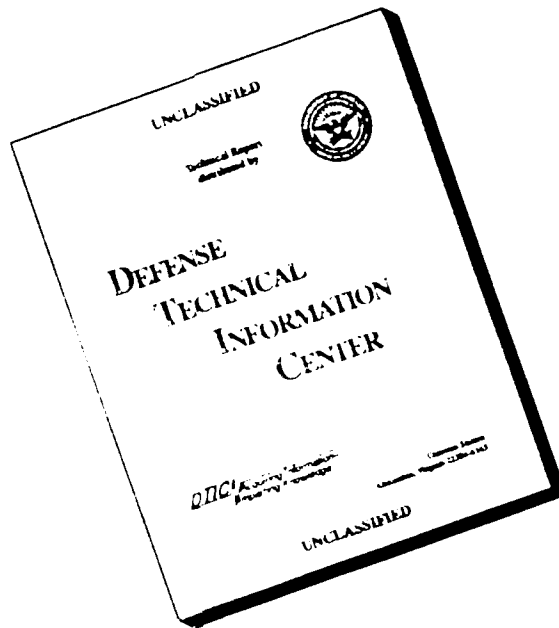
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JULY - SEPTEMBER 1992

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QUARTERLY STATUS REPORT

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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the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined or Withdrawn) on each report.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.

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PART 1

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

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INSTITUTION

INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PH NAME
Air Force Research Lab	James	Mary Ann		92-NA-402	A	SAKELL
		Mary Ann		92-NA-403	A	SAKELL
	Vinton	Vincent	J	92-VM-449	A	WAKSMAN
	Kaye	Joseph		92-MC-353	D	ERSTFELD
	Cochran	Douglas		92-NM-463	A	SJOGREN
Arizona State University	Kouris	Demetris	A	92-NA-352		JONES
	Aracis	George	N	92-NM-416		JACOBS
	Stanley	James	T	92-NA-316		JONES
	Jun	William		92-NM-491		NACHMAN
	Self	David	A	92-NI-044	A	DOLAND
Armstrong Laboratory				92-NI-046	A	BOLAND
		Golan		92-NA-379	A	JONES
	Courtright	Edward	L	92-MC-341		BURGGRAB
	Grassburn	Stephen		92-NL-229		TANGMEY
	Lampicki	Alex	B	92-MC-300		ERSTFELD
Brown University	Smith	Johannes		92-NM-434		JACOBS
	Tuttles	David	F	92-NM-458		JACOBS
	Worse	F		92-NE-354	A	SCHLOSSBER
	Needleman	Alan		92-NA-377		JONES
	T C Liu	Joseph	C	92-NA-318		TISHKOFF
California Institute of Technology	Gavie	John		92-NM-425		JACOBS
	Hall-Mann	Murray		92-NI-045	A	BOLAND
				92-NI-047	A	BOLAND
		William	A	92-NA-314		JONES
		Rodney		92-NM-441	A	SUDDARTH
Cape Cod Research, Inc.		Hans	B	92-NA-330		TISHKOFF
		Wolfgang	B	92-NA-294		JONES
		Christof		92-NL-248		TANGMEY
		Elzbieta	A	92-NA-335		JONES
		Robert	J	92-NM-460	A	GLASSMAN
Carnegie-Mellon University	Oikon	Brian	G	92-MC-376	A	LEE
	Amack	William	S	92-MC-360		ERSTFELD
	Collock	Tresa	M	92-MC-380		ROSENSTEIN
	Schlesinger	F.		92-NM-413		JACOBS
	Steif	Paul	S	92-NA-340		JONES
Case Western Reserve University	Heuer	Arthur	H	92-NA-346		JONES
	Ishida	Katsuo		92-NA-308		JONES
	Lambrecht	Walter H.	L	92-MC-327		BURGGRAB
	Lisandowski	John	J	92-MC-364	A	ROSENSTEIN
	E. Meljer	Paul	H	92-NM-500		NACHMAN
Catholic University of America	Alfano	Robert	A	92-NE-350	A	CRAIG
	Schmeltzer	David		92-NE-356	D	WEINSTOCK
	Andy	Carlos		92-NM-480		NACHMAN
	Cirouch	Eytan		92-NM-505	A	NACHMAN
	Lin	Sun		92-NM-394		NACHMAN
Clark Atlanta University	Moushringer	John		92-NA-356		NACHMAN
	Benel	John		92-NA-356		NACHMAN
		Liya	L	92-MC-379	D	ERSTFELD
		Russell	J	92-NA-336		JONES

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PI NAME
Colorado School of Mines Columbia University Cornell University	Grigoriu	Mica			92-NC-243		ROSENSTEIN
	Isner	John	J		92-NA-349		JONES
	Tang	Yu-chiung			92-NL-273	A	DICKINSON
	Wland	Robert	S		92-NM-483	A	GLASSMAN
	Carpenter	Berry	K		92-NA-190		TISHKOFF
	Field	David	J		92-NL-221		TANGNEY
	Hammir	David	A		92-NA-279		BIRKAN
	Krusius	J	P		92-NE-353		SMITH
	Leibovich	Sidney			92-NA-266	A	FANT
	Nation	John	A		92-NE-361		MARKER
Hartmut College	Sass	Stephen	L		92-NA-285		JONES
	Steinhardt	Allan	U		92-NM-400	A	SJOGREN
	Gibson	Ursula	J		92-NC-356		ERSTFELD
	Hudson	Mary	K		92-NL-220	A	RADOSKI
	Sundon	Peter	A		92-NL-255		TANGNEY
	Cohen	Fernand	S		92-NM-484		WAKSMAN
	Suez	Allon			92-NM-504		SUDDARTH
	Weystel	Alexander	M		92-NL-254		TANGNEY
	Nath	Amar			92-NC-336		LEE
	Pourki	Forouza	S		92-NM-445		JACOBS
Yale University	Jung	Albert	H		92-NA-345		JONES
	Dowell	Earl	M		92-NM-420		JACOBS
	J. Rigby	John M J			92-NM-447		JACOBS
	Wadey	Bruce	V		92-NA-319		TISHKOFF
	Leaver	Charles			92-NC-363		HEDBERG
	Freiman	Luiz	L		92-NE-351	A	WITT
	Louranco	Men			92-NA-383		FANT
	Chow	Genady			92-NA-323		TISHKOFF
	Cherapanov	Anjaneyulu	H		92-NC-320		ERSTFELD
	Krothapalli	Lawrence			92-NM-414	A	JACOBS
George Mason University Georgia Institute of Tech	Tomson	Parviz			92-NE-345	A	CRAIG
	Tayebati	Karla			92-NC-354	A	LEE
	Taffman	Cecil	C		92-NM-476		GLASSMAN
	Alford	Satya	M		92-NL-237		TANGNEY
	Atluri	Elizabeth	T		92-NC-301		ERSTFELD
	Davis	Sathya	V		92-NL-243		TANGNEY
	Manojud	Uzi			92-NM-439		JACOBS
	Landman	David	L		92-NC-369		BURGGRAF
	McDowell	Ashwin			92-NA-342		JONES
	Pam	Richard	F		92-NM-482		WAKSMAN
Georgia Research Conference Inc Hamman University Hampton Institute Hampton University	Serfozo	Warren	C		92-NM-407	A	SJOGREN
	Stranle	John	H		92-NA-320		TISHKOFF
	Vinde Vate	Alexander	K		92-NM-464		GLASSMAN
	Cruickshank	John			92-NE-369	D	WEINSTOCK
	Chapin	Demetrius	U		92-NL-279		HADDAD
	Vandels	Gerald	C		92-NM-411		JACOBS
	Yeh	Donald			92-NM-410		JACOBS
	Tshibi	Gather	M		92-NA-277		BIRKAN

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Irvine University	Rockett		Robert		92-NL-235		TANGNEY
	Evans		Patrick		92-NL-275		TANGNEY
	Lincoln		Charles		92-NC-372		ERSTFELD
	Knorr		Mehdi		92-NA-384		MCMICHAEL
High Technology Corp	Malik		Majeed		92-NA-367		SAKELL
	Choudhury		Ajit		92-NA-406		WU
	Gill		Tepper		92-NM-495		NACHMAN
	Gardes		Michael		92-NC-351		ERSTFELD
Hughes Aircraft Co	Lim		J		92-NE-341		CRAIG
	Buralnick		S		92-NE-372	A	WEINSTOCK
	Nieib		Missan		92-NM-430		JACOBS
	Sciammarella		Cesar		92-NA-309		JONES
Illinois Institute of Technology	Williams		David		92-NA-370	A	FANT
	Lu		Ping		92-NM-473		JACOBS
	Rose		James		92-NC-313		ERSTFELD
	Akinc		Mufit		92-NA-337		JONES
Iowa State Univ of Science and Tech	Johnson		Kenneth		92-NL-231		TANGNEY
	Kaplan		Alexander		92-NE-364		SCHLOSSBER
	Olson		David		92-NL-266		TANGNEY
	Salzberg		Steven		92-NM-462		WAKSMAN
Iowa State University Press	Scheinerman		Edward		92-NM-468		GLASSMAN
	Charney, Jr.		William		92-NA-293		JONES
	Lillian-Al-Heser		A		92-NE-363		WITT
	Farmer		Martin		92-NA-310		JONES
Kent, M University	Long		Daniel		92-NA-381		LEWIS
	Walker		J David		92-NA-327		TISHROFF
	Zei		Robert		92-NC-316		ERSTFELD
	Voyadjis		George		92-NA-290		JONES
Louisiana State University	Uxman		Allen		92-NA-396	A	JONES
	Ananji		Lalit		92-NL-263		TANGNEY
	Bekefi		George		92-NA-375		JONES
	Brugar		Kenneth		92-NE-370	A	BARKER
MIT -- Lincoln Lab	Chan-Diaz		F		92-NM-440		JACOBS
	Chun		Jung-Hoon		92-NA-399		BIRKAN
	Covett		Eugene		92-NA-308		JONES
	Eustein		Alan		92-NA-257		FANT
Massachusetts Institute of Technology	Gratzer		Edward		92-NA-369	A	FANT
	Kerrbrack		Jack		92-NA-368	A	FANT
	Wei		Chiang		92-NA-279		BIRKAN
	Mortenson		Andreas		92-NA-394		LEWIS
McGill University	Nahorai		Arye		92-NA-305		JONES
	Pelloux		Reis M.		92-NM-502		SJOGREN
	Shine		Wendell		92-NC-306		ERSTFELD
	Hillias		John		92-NC-339		BURGGRAF
Michigan State University	Brogman		Albert		92-NA-386		LEWIS
	Bisler		Thomas		92-NL-261		TANGNEY
					92-NC-373		ROSENSTEIN

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Mississippi State University	Cass	Eldon	G	92-WC-312		ERSTFELD
Montana State University	Carlsman	Ronald	J	92-NA-375		WU
NASA - Goddard Space Flight Center	Myquist	Dennis	P	92-NM-393		NACHMAN
Radio Tech Services	Ostojaszewski	Martin		92-NA-385		LEWIS
National Academy of Sciences	Gennett	A. George	A	92-NA-315		JONES
Naval Post Graduate School	Perkins	Stevie		92-NA-401		LEWIS
	Einaudi	Francis		92-NL-265	A	STOBIE
	Luston	Teri	E	92-NL-263		TANGNEY
	Panson	William		92-NL-219	A	DICKINSON
	Feiden	Scott	F	92-NM-479		GLASSMAN
	Bradley	Gordon	H	92-NM-461	A	GLASSMAN
	Chandrasekhara	M S		92-NA-371	A	FANT
	Ludi			92-NM-511		SUDDARTH
Naval Research Laboratory	Oran	Elaine	S	92-NA-389		TISHKOFF
	Lowland	Harvey		92-NE-349	A	BARKER
	Ploe	Job		92-XO-013	A	WILKERSON
Naval Services Warfare Center	Bankar	Jayannathan		92-NA-341		JONES
North Carolina State University	Jones	Charles	R	92-NE-363		SCHLOSSBER
North Carolina Central University	Fitzpatrick	Ben	G	92-NM-505		JACOBS
North Carolina State University	Mason	Y	A	92-VA-317		TISHKOFF
Northern Illinois University	Baranini	Nader	B	92-NM-486		SJOGREN
	Boogler	Charles	A	92-NC-344		LEE
Northeastern University	Chung	Yip	M	92-NC-319	A	ERSTFELD
	Kear	Leon	M	92-NA-353		JONES
Office of Naval Research	Mark	Tobin	J	92-NC-329	A	LEE
	PAOLETTI	CHUCK		92-XO-012	A	OWENS
	Vanuto	Thomas		92-NA-365	A	TISHKOFF
Ohio State Univ Research Foundation	Harbert	Thorwald	M	92-NA-398		MCMICHAEL
Ohio State University	Lavigne	Zachary		92-NE-352	A	POMRENKE
	Waller	Terry	A	92-NA-363		BIRKAN
	Pierre	George	R	92-NA-307		JONES
	Furci	Peter	J	92-NA-272		BIRKAN
	Galino	Daniel	A	92-NA-339		JONES
Ohio University	Huang	Xen	K	92-NM-446		JACOBS
Old Dominion University	Quinn	Jarus	M	92-NE-348		CRAIG
Optical Society of America	Leen	Todd	K	92-NM-397	A	SUDDARTH
Oregon Graduate Institute	Mohler	Ronald	R	92-NM-415		JACOBS
Oregon State University	Baker	A. Terry	K	92-NC-377		BURGGRAF
Pennsylvania State University	Sier	Semih		92-NC-334		HEDBERG
	Harrison	Ian	R	92-NA-303		JONES
	Hallmann	John	R	92-NC-310		ERSTFELD
	Pao	C.	K	92-NM-499		SJOGREN
	Soy	Rustum		92-NC-346		ERSTFELD
	Santoro	Robert	J	92-NA-269		BIRKAN
	Smith	Gerald	A	92-NE-373		KELLEY
	Wang	K	M	92-NA-373		WU
Physical Optics Corporation	Wang	Michael		92-NE-338	A	CRAIG
Polytechnic University	Felson	Leonid	R	92-NM-510	A	NACHMAN

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Principio View A and W Research Foundation	Princeton University	Shang	Sun	M	92-NC-370		ROSENSTEIN
		Yaff		L	92-NE-333	A	WEINSTOCK
		Edgerty	Thomas	M	92-NA-366		JONES
		Edgerty	Garry	L	92-NA-323		TISHKOFF
Princeton University	Princeton University	Debenedetti	Pablo	G	92-NA-264	A	TISHKOFF
		Powell	Warren	A	92-NM-474	A	GLASSMAN
		Kirk	A.	C	92-NM-472		WAKSMAN
		Mellich	Michael	R	92-NE-359	A	WITT
Purdue Research Foundation	Purdue University	Pizlo	Sygaunt	S	92-NL-259		TANGNEY
		Pao	Singiresu	A	92-NA-263		WU
		Waisnhar	Terrence	A	92-NM-439		JACOBS
		Gajaj	Chanderjit	F	92-NM-503		GLASSMAN
Purdue University	Purdue University	Grandt, Jr.	Allen	F	92-NC-311		ERSTFELD
		Murthy	S. N. 3.		92-NA-270		BIRKAM
		Skelton	Robert	E	92-NM-436		JACOBS
		Cole	Julian	J	92-NM-469		NACHMAN
Leinseleer Polytechnic Institute	Leinseleer Polytechnic Institute	Corenus	Robert	H	92-NA-285		JONES
		Park	Richard	L	92-NL-230		TANGNEY
		Rusak	Zvi	S	92-NM-490		NACHMAN
		Sternstein	Sanford	S	92-NA-282		JONES
Ics University	Ics University	Stoloff	Norman	S	92-NA-287		JONES
		Scuseria	Gustavo	E	92-NC-345		BURGGRAF
		Gilbert	Charles	D	92-NL-227		TANGNEY
		Hammer	Peter	L	92-NM-435		GLASSMAN
The State University	The State University	Panathomas	Thomas	V	92-NL-262		TANGNEY
		Sanfortn	Stephen	C	92-NA-283		JONES
		Kear	Bernard	H	92-NA-350		JONES
		Pae	Kook	D	92-NA-283		JONES
The State University	The State University	Reed	Harold	E	92-NA-392		LEWIS
		Reed	Stephen	K	92-NL-269		TANGNEY
		Vializis	Angelo		92-NC-367		LEE
		Vassot	Robert		92-NE-343		KELLEY
The State University	The State University	Wright	Maurice	J	92-NA-343		JONES
		Wiberman	Richard		92-NM-507		NACHMAN
		Wu	V T (Justin)		92-NA-404	D	CHANG
		Teasley	Malcolm	R	92-NE-362	A	WEINSTOCK
The State University	The State University	Towman	Craig	T	92-NA-331		TISHKOFF
		Cannon	Robert	M	92-NA-372	A	JONES
		Seballe	Theodore	H	92-NE-344	A	WEINSTOCK
		Hesslink	Lambertus		92-NA-379		MCMICHAEL
The State University	The State University	Murray	Walter	C	92-NM-395		GLASSMAN
		Simo	J		92-NM-465	A	JACOBS
		Tversky	Barbara		92-NL-274		TANGNEY
		Gourackis	Nikolaos	G	92-NL-227		TANGNEY
The State University	The State University	Tright	Frank	V	92-NC-371		HEDBERG
		Prasad	Paras	N	92-NC-328		LEE
		Sudeghi	Tom		92-NM-452		JACOBS
		Shor	David	B	92-NL-226		TANGNEY

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
University of Illinois - Urbana-Champaign	Skrin-Kapov	Adrian	Jadranka		92-NM-512		GLASSMAN
		Allen	Michael	S	92-NL-241		TANGNEY
		Ball	Denis	S	92-NL-244		TANGNEY
		Virginney	Prasad	K	92-NM-509		SJOGREN
Syracuse University	Crain	Crain	Gary	L	92-NI-048	A	BOLAND
		Lopes	Mortimer	M	92-NE-337	A	WEINSTOCK
		Allen	David	H	92-NA-299		JONES
		Nelson	Paul		92-NM-406		NACHMAN
Texas Tech University	Paddy	Paddy	J	N	92-NA-332		JONES
		Atfield	Lynn	L	92-NA-275		BIRKAN
		Ishihara	Osamu		92-NE-346		BARKER
		Schulze	James	G	92-NL-242		TANGNEY
Tufts University	Schulze	Schulze	James		92-NA-355		JONES
		Jeelani	Shaik		92-NC-366		ERSTFELD
		Colket	Meredit		92-NC-355		HEBERG
		Jaird	James	K	92-NM-412		JACOBS
United Technologies Research Center Univ of Alabama	Madarsz	Madarsz	Frank		92-NE-357	A	POMRENKE
		Alidar	Achintya		92-NC-304		ERSTFELD
		Kundu	Tribikram		92-NC-308		ERSTFELD
		Holoney	J.		92-NM-437		NACHMAN
Univ of Arizona	Howell	Howell	Alan	C	92-NM-492	A	NACHMAN
		Olson	George		92-NL-252		HADDAD
		Shaked	Washa		92-NM-465		SJOGREN
		Wynnanowski	Israel	J	92-NA-390	A	MCMICHAEL
Univ of California, Berkeley	Ferrari	Ferrari	Maura		92-NA-392		LEWIS
		Glasser	Donald	A	92-NL-247		TANGNEY
		Hu	Chenmin		92-NE-367		SMITH
		Jewell	William		92-NM-493		SJOGREN
Univ of California, Irvine	Knobloch	Knobloch	Edgar		92-NM-494		NACHMAN
		Malik	Jitendra		92-NL-249		TANGNEY
		Marsden	Jerrold	E	92-NM-470		NACHMAN
		Morse	Edward	C	92-NE-371		BARKER
Univ of California, Los Angeles	Polak	Polak	Elijah		92-NM-459		JACOBS
		Ritchie	Robert	J	92-NC-375		ROSENSTEIN
		Saykally	Richard	J	92-NC-381		ERSTFELD
		White	Richard	M	92-NM-422		JACOBS
Univ of California, Los Angeles	Apkarian	Apkarian	V. Ara		92-NA-364		BIRKAN
		Stubberud	Allen		92-NM-443		JACOBS
		Wolfenstine	Jeffrey	J	92-NC-342		BURGGRAF
		Cattolica	Robert		92-NA-269		BIRKAN
Univ of California, Los Angeles	Landkisen	Landkisen	O		92-NA-361		CHANG
		Friedlander	Shelton	K	92-NL-260		STOBIE
		Hahn	H. Thomas		92-NA-344		JONES
		Ho	Chih-Ming		92-NM-427		JACOBS
Univ of California, Los Angeles	Hummel	Hummel	John	E	92-NL-277		TANGNEY
		Lude	Poul		92-NA-393		LEWIS
		Mackenzie	J.		92-NC-365		LEE
		Mal	Ajit	A	92-NC-335		ERSTFELD

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Univ of California San Diego	Kozysak	Josef			92-NL-245		TANGNEY
	Benar	Sadik			92-NM-432		JACOBS
	Wattmiller	Gilbert	A		92-NA-358		JONES
Univ of California Santa Barbara	Williams	Norman			92-NA-325		TISHKOFF
	Allen, Jr	S	J		92-NE-335		POMRENKE
	Mcweeney	Robert	M		92-NA-231		JONES
Univ of California Santa Cruz	Smith	ROY			92-NM-453		JACOBS
	Bridgman	Bruce			92-NL-238		TANGNEY
	Clark	Thomas	L		92-NL-245		TANGNEY
Univ of Central Florida	Micholison	David	M		92-NC-317		ERSTFELD
	Shah	Mubarak	A		92-NL-240		TANGNEY
	Hamed	Asstaf			92-NA-405		SAKELL
Univ of Cincinnati	Singh	Raj	M		92-NA-292		JONES
	Walker	Bruce	K		92-NM-442		JACOBS
	Branch	Melvyn	C		92-NA-276		BIRKAN
Univ of Colorado	Leone	Stephen	R		92-NA-333		POMRENKE
	Woff	John	A		92-NE-347		BIRKAN
	Sonsalvas	Kenneth	E		92-NM-451		JACOBS
Univ of Connecticut	Jordan	Eric	H		92-NA-284		JONES
	Davidson	Joseph			92-NA-357		JONES
	Jain	Vinod			92-XO-014		OWENS
Univ of Dayton	Whitney	James	M		92-NC-322		ERSTFELD
	Colton	David	L		92-NA-296		JONES
	Ellis	John			92-NM-485		NACHMAN
Univ of Delaware	Amee	Robert	C		92-NL-253		TANGNEY
					92-NC-331		ERSTFELD
					92-NC-349		ERSTFELD
Univ of Denver	Combs	Robert	D		92-NC-348		BERMAN
	Bartlett	Rodney	J		92-NE-366		KELLEY
	Brannan	Anthony	B		92-NC-326		LEE
Univ of Florida	Kaufman	Michael	J		92-NA-347		JONES
	Whitney	E. Dow			92-NC-323		ERSTFELD
	King	Robert			92-NC-293		BURGGRAF
Univ of Georgia	White	Kenneth	M		92-NA-351		JONES
					92-NA-391		JONES
					92-NM-498		NACHMAN
Univ of Houston	Wickmaster	John	D		92-NA-281		BIRKAN
	Burton	Rodney	L		92-NA-354		JONES
	Economy	James	U		92-NL-276		HADDAD
Univ of Illinois	Gillette	Martha			92-NM-513		GLASSMAN
	Goldberg	David	E		92-NC-314		ERSTFELD
	Jones	Walter	M		92-NC-359		BURGGRAF
Univ of Indiana	Kriven	Hadis			92-NM-454		JACOBS
	Markac	Gary			92-NL-050		BOLAND
	Piccio	Harrell			92-NC-352		ERSTFELD
Univ of Iowa	Sellers	Thomas C.	M		92-NA-312		JONES
	Sinha	Thomas C.	T		92-NC-315		ERSTFELD
	Ting	Surya	P		92-NA-273		BIRKAN

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Univ of Iowa	Wickon	Wilfrid	A	92-NA-304		JONES
	Unon	Fuhua		92-NM-473		GLASSMAN
	Unon	William	M	92-NA-289		JONES
	Unon	David	H	92-NM-403		JACOBS
Univ of Maryland	Anderson, Jr.	John	D	92-NA-274		BIRKAN
	Weller	William	M	92-NL-271		STOBIE
	Weller	Thomas	J	92-NE-374		KELLEY
	Rosenfeld	Azriel		92-NM-394	A	SJOGREN
Univ of Mass Medical Center	Pollen	Daniel	A	92-NL-224		TANGNEY
	Porto	Andrie	G	92-NM-392		SUDDARTH
	Gang	Del-bo		92-NM-431		GLASSMAN
	Karisz	Frank	E	92-NC-299		LEE
Univ of Massachusetts at Lowell	Rosenbaum	David	A	92-NC-350		LEE
	Bonner	Francis	J	92-NL-250		TANGNEY
	Parkowsky	Samuel	S	92-NC-374		LEE
	Cutts	Debasish		92-NA-395		LEWIS
Univ of Michigan	Gallimore	Alec	D	92-NM-514		GLASSMAN
	Gibala	Donald		92-NA-280		BIRKAN
	Karon	Yoram		92-NA-300		JONES
	McCluskey	N. Harris		92-NL-223		TANGNEY
Univ of Minnesota	Steel	Duncan		92-NM-419	A	JACOBS
	Wass	Anthony	M	92-NE-340		JONES
	Conen	Phillip		92-NA-389	A	POMRENKE
	Friedman	Arthur	S	92-NE-342		JACOBS
Univ of Missouri	Waller	Avner		92-NM-448		JACOBS
	Avuli	Walter		92-NL-219		BERRY
	Charuni	Xavier J.	R	92-NM-424		JACOBS
	Holder	H.	P	92-NA-301		JONES
Univ of Nebraska	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of North Carolina	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of North Texas	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of Oklahoma	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of Oregon	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of Pennsylvania	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of Pittsburgh	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
Univ of Rhode Island	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES
	Wichman	Lakeswarappa	R	92-NA-397		JONES

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Univ of Tennessee	Chukla	Robert	David	M	92-NA-407		LEWIS
Univ of Tennessee	Chukla	Robert	David	M	92-NL-232		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NL-272		HADDAD
Univ of Tennessee	Chukla	Robert	David	M	92-NM-457		SJOGREN
Univ of Tennessee	Chukla	Robert	David	M	92-NL-257	A	TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NA-334		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NL-256	A	DICKINSON
Univ of Tennessee	Chukla	Robert	David	M	92-NL-251		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NM-487		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NM-423		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NM-477		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NM-399		SUDDARTH
Univ of Tennessee	Chukla	Robert	David	M	92-NA-326		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NA-360		SARELL
Univ of Tennessee	Chukla	Robert	David	M	92-NA-271		BIRKAN
Univ of Tennessee	Chukla	Robert	David	M	92-NA-359		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NE-336	A	WEINSTOCK
Univ of Tennessee	Chukla	Robert	David	M	92-NL-234		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NA-322		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NA-324		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NM-437		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NM-404		SUDDARTH
Univ of Tennessee	Chukla	Robert	David	M	92-NC-378		LEE
Univ of Tennessee	Chukla	Robert	David	M	92-NA-387		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NC-307		ERSTFELD
Univ of Tennessee	Chukla	Robert	David	M	92-NM-431		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NL-222		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NM-501		NACHMAN
Univ of Tennessee	Chukla	Robert	David	M	92-NM-509		NACHMAN
Univ of Tennessee	Chukla	Robert	David	M	92-NA-313		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NA-321		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NL-267	D	TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NE-359		CRAIG
Univ of Tennessee	Chukla	Robert	David	M	92-NA-323		TISHKOFF
Univ of Tennessee	Chukla	Robert	David	M	92-NL-225		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NC-330		ERSTFELD
Univ of Tennessee	Chukla	Robert	David	M	92-NM-455		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NC-362		LEE
Univ of Tennessee	Chukla	Robert	David	M	92-NA-349		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NA-374		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NA-265	A	LEWIS
Univ of Tennessee	Chukla	Robert	David	M	92-NL-258		TANGNEY
Univ of Tennessee	Chukla	Robert	David	M	92-NM-429		JACOBS
Univ of Tennessee	Chukla	Robert	David	M	92-NM-471	A	GLASSMAN
Univ of Tennessee	Chukla	Robert	David	M	92-NC-357	D	ERSTFELD
Univ of Tennessee	Chukla	Robert	David	M	92-NC-302		LEE
Univ of Tennessee	Chukla	Robert	David	M	92-NC-358		JONES
Univ of Tennessee	Chukla	Robert	David	M	92-NA-295		JONES

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(MURI) EXPERIMENTAL AND THEORETICAL STUDIES OF PLASMA THRUSTER INTERIOR FLOWS Ohio State University	Turchi	N 36 14/07/92 \$3,620,430	BIRKAN 92-NA-272	
(MURI) AEROTHERMOCHEMISTRY ADVANCES IN ROCKET PROPUSSION Univ of Illinois	Vanka	N 36 14/07/92 \$3,660,836	BIRKAN 92-NA-273	
(MURI) AN INTEGRATED EXPERIMENTAL, COMPUTATIONAL, AND ANALYTICAL STUDY OF HETEROGENEOUS COMBUSTION RELEVANT TO HYBRID SPACE PROPUSS Univ of Maryland	Anderson, Jr.	N 48 14/07/92 \$3,281,313	BIRKAN 92-NA-274	
(MURI) ARJET ENERGY TRANSFER AND ELECTRODE EROSION Texas Tech University	Haffield	N 24 14/07/92 \$2,584,761	BIRKAN 92-NA-275	
(MURI) NONSTEADY COMBUSTION MECHANISMS OF ADVANCED SOLID PROPELLANTS Univ of Colorado	Branch	N 48 14/07/92 \$3,256,076	BIRKAN 92-NA-276	
(MURI) DEVELOPMENT OF ADVANCED THERMAL AND ELECTRIC PROPUSSION SYSTEM Hampton University	Tabibi	N 24 14/07/92 \$1,858,176	BIRKAN 92-NA-277	
(MURI) A COMPREHENSIVE STUDY OF THE BASIC RESEARCH QUESTIONS OF POLAR ELECTRIC ORBITAL TRANSFER VEHICLE Massachusetts Institute of Technology	Kerrabrock	N 36 14/07/92 \$3,389,399	BIRKAN 92-NA-278	
(MURI) BASIC STUDIES IN MAGNETICALLY DRIVEN PLASMA PROPUSSION Cornell University	Hammer	N 36 14/07/92 \$3,242,242	BIRKAN 92-NA-279	
(MURI) EXPERIMENTAL AND THEORETICAL STUDY OF WALL THRUSTER TECHNOLOGY Univ of Michigan	Gillmore	N 36 14/07/92 \$2,235,809	BIRKAN 92-NA-280	

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(MURI) OFFICE OF AERO INDUSTRIES FOR FLIGHT MANUSHER Univ of Illinois	Jurton Rounny	N 36 14/07/92 \$1,734,476	BIRKAM 92-NA-281	
(MURI) PROCESSING SCIENCE AND SYNTHESIS FOR ENHANCED TEMPERATURE PERFORMANCE COMPOSITES Gensseler Polytechnic Institute	Starnstein Sanford	N 36 14/07/92 \$4,388,651	JONES 92-NA-282	
(MURI) HIGH TEMPERATURE AEROSPACE STRUCTURAL MATERIALS, 3-D CERAMIC FIBER REINFORCED CERAMIC COMPOSITES Butters, The State University	Unforth Stephen	N 36 14/07/92 \$4,360,876	JONES 92-NA-283	
(MURI) POLYMERS FOR HIGH TEMPERATURE APPLICATIONS Univ of Connecticut	Gonsalves Kenneth	N 93 14/07/92 \$3,918,135	JONES 92-NA-284	
(MURI) DESIGN AND ANALYSIS PROCESSING OF METAL-CERAMIC AND CERAMIC- CERAMIC HYBRIDSTRUCTURES, INCLUDING COMPOSITES Cornell University	Giss Stephen	N 48 14/07/92 \$4,000,000	JONES 92-NA-285	
(MURI) SILICON OXYCARBIDE GLASS-PROCESSING AND PROPERTIES Gensseler Polytechnic Institute	Corneaus Robert	N 36 14/07/92 \$2,292,770	JONES 92-NA-286	
(MURI) EFFECT OF INNOVATIVE PROCESSING ON PROPERTIES OF ADVANCED METALLIC COMPOSITES Gensseler Polytechnic Institute	Stoloff Norman	N 36 14/07/92 \$3,127,960	JONES 92-NA-287	
(MURI) IN SITU CHARACTERIZATION OF AEROSPACE STRUCTURAL MATERIALS Univ of Maine	Unertl William	N 36 15/07/92 \$2,916,327	JONES 92-NA-288	
(MURI) HIGH-TEMPERATURE MANUFACTURED AEROSPACE STRUCTURAL MATERIALS, SYNTHESIS, CHARACTERIZATION, TESTING & MOUL Butters, The State University	Koak Pie	N 36 15/07/92 \$2,357,274	JONES 92-NA-289	

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(MURI) FATIGUE DAMAGE ASSESSMENTS OF HIGH-TEMPERATURE AEROSPACE METAL MATRIX COMPOSITE MATERIALS Louisiana State University	Voyladdis George	N 36 15/07/92 \$1,341,384	JONES 92-NA-290	
(MURI) NOVEL STRUCTURAL MATERIALS AND DESIGN CONCEPTS FOR HIGH- TEMPERATURE AEROSPACE Univ of California, Santa Barbara	McMeeking Robert	N 36 15/07/92 \$4,122,601	JONES 92-NA-291	
(MURI) FIBER-REINFORCED COMPOSITES FOR HIGH-TEMPERATURE AEROSPACE STRUCTURES Univ of Cincinnati	Singh Raj	N 48 15/07/92 \$2,200,933	JONES 92-NA-292	
(MURI) FUNDAMENTAL STUDIES OF DEFORMATION AND FAILURE IN COMPOSITES AT HIGH TEMPERATURE Johns Hopkins University	Sharpe, Jr. William	N 36 15/07/92 \$3,768,448	JONES 92-NA-293	
(MURI) THERMOMECHANICAL AND FAILURE RESPONSE OF HIGH-TEMPERATURE MATERIALS California Institute of Technology	Knauss Wolfgang	N 36 15/07/92 \$1,597,663	JONES 92-NA-294	
(MURI) UNDERCOOLING AND RAPID QUENCHING TECHNOLOGY FOR THE PRODUCTION OF NATURAL IN SITU COMPOSITES Vanderbilt University	Dzyuzick Robert	N 36 15/07/92 \$3,999,427	JONES 92-NA-295	
(MURI) STRUCTURAL/PROPERTY RELATIONS IN HIGH TEMPERATURE STRUCTURAL MATERIALS Univ of Dayton	Whitney James	N 36 15/07/92 \$2,887,449	JONES 92-NA-296	
(MURI) MECHANICAL PROPERTIES OF IN-SITU SYNTHESIZED INTERMETALLIC AND CERAMIC COMPOSITES Univ of Pennsylvania	Pope David	N 36 15/07/92 \$3,972,350	JONES 92-NA-297	
(MURI) FOUNDATIONS FOR THE DEVELOPMENT AND APPLICATION OF HIGH TEMPERATURE AEROSPACE Virginia Polytechnic Inst & State Univ	Reifsnider Kenneth	N 36 15/07/92 \$3,166,170	JONES 92-NA-298	

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(MURI) MODELS FOR COMPOSITES WITH ELASTICITY AND DAMAGE AT ELEVATED TEMPERATURE Texas Engineering Experiment Center	Allen David	N 36 15/07/92 \$3,997,202	JONES 92-NA-299	
(MURI) CENTER FOR HIGH-TEMPERATURE AEROSPACE STRUCTURAL MATERIALS: THE MECHANICS AND MECHANICAL BEHAVIOR OF HIGH-TEMPERATURE IMC Univ of Michigan	Ronald Gibala	N 48 15/07/92 \$3,450,000	JONES 92-NA-300	
(MURI) CERAMIC MATRIX COMPOSITES FOR HIGH TEMPERATURE AEROSPACE STRUCTURAL APPLICATIONS Univ of Missouri	Dharani Lokeswari	N 36 15/07/92 \$2,292,902	JONES 92-NA-301	
(MURI) THE DEVELOPMENT OF ADVANCED CARBON-CARBON COMPOSITES FOR AEROSPACE STRUCTURAL APPLICATIONS Univ of Oklahoma	Kline Donald	N 36 15/07/92 \$3,058,067	JONES 92-NA-302	
(MURI) BASIC SOLUTIONS TO CARBON/CARBON OXIDATION: SCIENCE AND TECHNOLOGY Pennsylvania State University	Harrison Ian	N 48 15/07/92 \$3,867,529	JONES 92-NA-303	
(MURI) AN EXPERIMENTALLY BASED CONSTITUTIVE MODEL FOR HIGH TEMPERATURE MATERIALS USING ICE AS AN ANALOG Univ of Iowa	Hixon Wilfrid	N 36 15/07/92 \$3,016,119	JONES 92-NA-304	
(MURI) GRADED INTERCONNECTED COMPOSITE STRUCTURES FOR HIGH- TEMPERATURE STRUCTURAL APPLICATIONS Massachusetts Institute of Technology	Mortenson Andreas	N 36 15/07/92 \$4,445,714	JONES 92-NA-305	
(MURI) NEW, NEAR ZERO-SHRINKAGE POLYMER FOR SUPERIOR CARBON/CARBON COMPOSITES Case Western Reserve University	Ishida Hatsuo	N 48 15/07/92 \$4,390,329	JONES 92-NA-306	
(MURI) HIGH-TEMPERATURE STRUCTURAL CARBON-CARBON COMPOSITE/ CHEMICALLY AND MECHANICALLY COMPATIBLE COATINGS FOR OXIDATION RESI Ohio State University	Pierre George	N 48 15/07/92 \$8,000,000	JONES 92-NA-307	

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(MURI) STRUCTURAL PROPERTIES AND PERFORMANCE OF ALUMINUM SYSTEMS SYNTHESIZED BY THE MIXALLOY PROCESS Massachusetts Institute of Technology	Jun.-Moon	N 36 15/07/92 \$3,999,736	JONES 92-NA-308	
(MURI) MICROMECHANICS AND MICROPHYSICS OF INTERFACES IN COMPOSITES Illinois Institute of Technology	Sciammarella	N 48 15/07/92 \$1,627,722	JONES 92-NA-309	
(MURI) NOVEL OXIDE/CERAMIC COMPOSITES FOR SUPERIOR HIGH TEMPERATURE PERFORMANCE Cohlen University	Harmer	N 36 15/07/92 \$4,000,000	JONES 92-NA-310	
(MURI) DAMAGE MECHANISMS, MECHANICS AND DETECTION OF HIGH TEMPERATURE INTERMETALLIC AND COMPOSITES Washington University	Shankar	N 26 15/07/92 \$3,073,794	JONES 92-NA-311	
(MURI) SYNTHESIS OF HIGH PERFORMANCE YAS AND ALUMINA COMPOSITES Univ of Illinois	Shome	N 36 15/07/92 \$3,310,777	JONES 92-NA-312	
(MURI) HIGH-TEMPERATURE COMPOSITES: PROCESSING, PROPERTIES AND PERFORMANCE Univ of Virginia	Carl	N 36 15/07/92 \$3,432,434	JONES 92-NA-313	
(MURI) ATOMISTIC MODELLING OF AEROSPACE MATERIALS California Institute of Technology	William	N 48 15/07/92 \$4,000,000	JONES 92-NA-314	
(MURI) CHARACTERIZATION OF DIRECTLY BONDED JOINTS FOR HIGH- TEMPERATURE AEROSPACE APPLICATIONS Mississippi State University	A. George	N 48 15/07/92 \$3,408,225	JONES 92-NA-315	
(MURI) HIGH TEMPERATURE PROTECTIVE COATINGS FOR CARBON/CARBON COMPOSITES Arizona State University	James	N 36 15/07/92 \$1,873,373	JONES 92-NA-316	

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(MUR1) DEVELOPMENT OF STUDYING TURBULENCE AND TWO SURFACE INTERACTIONS IN HIGH TEMPERATURE REACTING FLOWS North Carolina State University	M	N 36 16/07/92 \$4,000,000	TISHKOFF 92-NA-317	
(MUR2) AEROTHERMOCHEMICAL PROBLEMS OF HYPERSONIC FLIGHT VEHICLES Brown University	Joseph T C Liu	N 36 16/07/92 \$3,990,857	TISHKOFF 92-NA-318	
(MUR3) AEROTHERMOCHEMISTRY Duke University	Madey John M J	N 36 16/07/92 \$4,261,339	TISHKOFF 92-NA-319	
(MUR4) AEROTHERMOCHEMISTRY RESEARCH IN SUPERSONIC COMBUSTION Georgia Institute of Tech	Strahle Warren	N 36 16/07/92 \$2,490,566	TISHKOFF 92-NA-320	
(MUR5) HIGH-SPEED MIXING AND COMBUSTIONS AN INTEGRATED COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION Univ of Virginia	McDaniel James	N 36 16/07/92 \$3,893,494	TISHKOFF 92-NA-321	
(MUR6) MIXING IN SUPERSONIC, CHEMICALLY REACTING, TURBULENT SHEAR LAYER; Univ of Texas	Thompson David	N 36 16/07/92 \$3,326,135	TISHKOFF 92-NA-322	
(MUR7) SUPERSONIC MIXING AND COMBUSTION PROCESSES Univ of Washington	Christiansen Walter	N 36 16/07/92 \$2,242,180	TISHKOFF 92-NA-323	
(MUR8) ACCURATE AND EFFICIENT COMPUTATION OF NON-EQUILIBRIUM REACTING AND RADIATING FLOWS Univ of Texas	Varghese Phillip	N 36 16/07/92 \$2,091,372	TISHKOFF 92-NA-324	
(MUR9) TURBULENT AND HIGH-SPEED FLOWS WITH CHEMISTRY AND PHASE CHANGES Univ of California, San Diego	Williams Forman	N 36 17/07/92 \$3,999,996	TISHKOFF 92-NA-325	

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(MURD) A NON-LINEARLY STABLE FINITE ELEMENT SYSTEM FOR HYPERSONIC AEROTHERMODYNAMICS Univ of Tennessee	Tinnelli Joe	N 36 17/07/92 \$2,142,635	TISHKOFF 92-NA-326	
(MURD) COLLABORATIVE THEORETICAL AND COMPUTATIONAL RESEARCH IN HYPERSONIC FLOW AND AEROTHERMOCHEMISTRY Michigan University	Talker J David	N 36 17/07/92 \$3,026,065	TISHKOFF 92-NA-327	
(MURD) TURBULENT REACTING FLOW AT HIGH SPEED Princeton University	Brown Garry	N 36 17/07/92 \$3,996,658	TISHKOFF 92-NA-328	
(MURD) COMBUSTION WITHIN A SWIRLING TURBULENT FLOW Florida Atlantic University	Chen Wen	N 36 17/07/92 \$1,491,337	TISHKOFF 92-NA-329	
(MURD) INTERACTION OF CHEMISTRY, TURBULENCE AND SHOCK WAVES IN HYPERVELOCITY FLOW California Institute of Technology	Turnung Hans	N 36 17/07/92 \$3,195,183	TISHKOFF 92-NA-330	
(MURD) RESEARCH IN SUPERSONIC TURBULENT REACTING FLOWS Stanford University	Dommen Craig	N 36 17/07/92 \$3,707,195	TISHKOFF 92-NA-331	
DEVELOPMENT OF GLOBAL/LOCAL COMPUTATIONAL PROCEDURES FOR THE ANALYSIS OF LAMINATED COMPOSITES PLATES AND SHELLS Texas Engineering Experiment Center	Reddy J	N 36 17/07/92 \$437,494	JONES 92-NA-332	
UNSTEADY DIFFUSION FLAME COMBUSTION PROCESSES OF ADVANCED SOLID PROPELLANTS Univ of Colorado	Spencer Melvyn	N 12 17/07/92 \$129,785	BIRKAN 92-NA-333	
(MURD) HYPERVELOCITY AIR FLOWS WITH FINITE-RATE CHEMISTRY: A DETAILED EXPERIMENTAL INVESTIGATION & ACCOMPANYING DIRECT NUMERIC Univ of Southern Cal -- School of Eng	Phillips Monte	N 36 20/07/92 \$4,370,200	TISHKOFF 92-NA-334	

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TITLE (CONT.) INSTITUTION				
(MURI) HIGH TEMPERATURE OXIDATION OF CARBON-CARBON COMPOSITES California Institute of Technology	Kalewa	N 36 20/07/92 \$2,363,690	JONES 92-NA-335	
(MURI) DESIGN, ANALYSIS AND FABRICATION OF OXIDATION RESISTANT CARBON/CARBON COMPOSITES Clemson University	Bliefendorf	N 24 20/07/92 \$2,979,777	JONES 92-NA-336	
(MURI) DESIGN OF RELIABLE CERAMIC COMPOSITES BY SOLIDIFICATION AND POWDER PRACTICES Iowa State University Press	Akinc	N 36 20/07/92 \$2,736,400	JONES 92-NA-337	
(MURI) ANTI-OXIDATION COATINGS FOR HIGH TEMPERATURE POLYMERIC COMPOSITES Ohio University	Gulino	N 36 20/07/92 \$3,314,195	JONES 92-NA-338	
(MURI) UNIVERSITY RESEARCH INITIATIVE ON HIGH TEMPERATURE AEROSPACE MATERIALS Univ of Pittsburgh	Pettit	N 48 20/07/92 \$2,910,877	JONES 92-NA-339	
(MURI) SYNTHESIS AND PROPERTIES OF OXIDE-BASED CERAMIC COMPOSITES Carnegie-Mellon University	Stall	N 36 20/07/92 \$2,442,461	JONES 92-NA-340	
(MURI) MECHANICAL BEHAVIOR INVESTIGATION OF ADVANCED CERAMIC MATRIX COMPOSITES MATERIALS North Carolina A&T State University	Jankar	N 36 20/07/92 \$1,893,625	JONES 92-NA-341	
(MURI) HIGH TEMPERATURE AEROSPACE STRUCTURAL MATERIALS Georgia Institute of Tech	McDowell	N 36 20/07/92 \$4,000,000	JONES 92-NA-342	
(MURI) A PROPOSAL TO CONDUCT RESEARCH INTO CARBON-CARBON HIGH TEMPERATURE MATERIALS Southern Illinois University	Bright	N 36 20/07/92 \$3,529,161	JONES 92-NA-343	

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(MURI) POLYMER-BLENDED HIGH-TEMPERATURE COMPOSITES Univ of California Los Angeles	H. Thomas	N 36 20/07/92 \$3,134,677	JONES 92-NA-344	
(MURI) HIGH TEMPERATURE DAMAGE MECHANISMS IN CERAMIC MATRIX COMPOSITES Branel University	Albert	N 36 20/07/92 \$2,691,959	JONES 92-NA-345	
(MURI) DUCTILE-PHASE REINFORCED CERAMIC COMPOSITES East Western Reserve University	Arthur	N 36 20/07/92 \$2,779,652	JONES 92-NA-346	
(MURI) INFLUENCE ALLIYING PROCESSING STRUCTURES PROPERTIES OF POLYIMIDE-BASAL MONOLITHIC CERAMIC Univ of Florida	Michael	N 48 20/07/92 \$2,972,549	JONES 92-NA-347	
(MURI) DESIGN OF HIGH TEMPERATURE MATERIALS FOR EXTREME USE CONDITIONS Univ of Washington	Minoru	N 48 20/07/92 \$2,948,602	JONES 92-NA-348	
(MURI) SYNTHESIS & CHARACTERIZATION OF 2- AND 3-DIMENSIONAL HIGH TEMPERATURE COMPOSITES Colorado School of Mines	John	N 36 20/07/92 \$3,822,083	JONES 92-NA-349	
(MURI) NANOSTRUCTURED MATERIALS FOR HIGH TEMPERATURE APPLICATIONS IN ADVANCED AIRCRAFT GAS TURBINE ENGINES University of State University	Bernard	N 24 20/07/92 \$19,561	JONES 92-NA-350	
(MURI) CARBON MICROSTRUCTURES FOR ENHANCED OXIDATION RESISTANCE AND STRUCTURAL PERFORMANCE Univ of Houston	Kenneth	N 36 21/07/92 \$2,967,656	JONES 92-NA-351	
(MURI) HIGH TEMPERATURE ORDERED METAL MATRIX COMPOSITES: INTERFACIAL ENGINEERING Arizona State University	Demetris	N 36 21/07/92 \$3,654,628	JONES 92-NA-352	

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(MURI) HYPERBOLICAL MATERIALS DESIGN APPROACH TO HIGH TEMPERATURE INTERMETALLIC COMPOSITES Northwestern University	Leon	N 48 21/07/92 \$3,501,645	JONES 92-NA-353	
(MURI) ADVANCED CARBONACEOUS AND POLYMERIC MATRICES FOR HIGH TEMPERATURE COMPOSITES Univ of Illinois	James	N 36 21/07/92 \$4,000,000	JONES 92-NA-354	
(MURI) HIGH TEMPERATURE CHARACTERIZATION OF CONTINUOUS FIBER- REINFORCED CERAMIC MATRIX COMPOSITES Yuskegen University	Shaik	N 36 21/07/92 \$3,781,638	JONES 92-NA-355	
(MURI) FATIGUE OF CARBON-CARBON COMPOSITES Clarkson University	Jenn	N 36 21/07/92 \$1,639,061	JONES 92-NA-356	
(MURI) LAND PHASE MATERIAL SCIENCE Univ of Connecticut	Eric	N 36 21/07/92 \$1,313,112	JONES 92-NA-357	
(MURI) HIGH-TEMPERATURE INTERMETALLIC AND CERAMIC MATRIX COMPOSITES Univ of California, San Diego	Gilbert	N 48 21/07/92 \$2,693,669	JONES 92-NA-358	
(MURI) PROCESSING AND MICROSTRUCTURAL DESIGN OF IN-SITU GROWN HYBRID REINFORCED CERAMIC-MATRIX COMPOSITES Univ of Texas	Wen	N 36 21/07/92 \$1,365,321	JONES 92-NA-359	
A NON LINEARLY STABLE FINITE ELEMENT CFD SYSTEM FOR HYPERSONIC AEROTHERMODYNAMICS Univ of Tennessee	Joe	N 48 21/07/92 \$669,443	SAKELL 92-NA-360	
INITIAL GRANT APPLICATION Univ of California, Los Angeles	Jendkisen	N 36 21/07/92 \$209,587	CHANG 92-NA-361	

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
FUNDAMENTAL RESEARCH IN MODELING AND CONTROL OF MULTILINK FLEXIBLE ARTICULATED STRUCTURES Stanford University	Linnon	2 06 31/07/92 \$75,000	A JONES 92-NA-372	\$75,000 30/09/92 \$75,000
MODEL PARAMETRIC CONTROL METHODOLOGY FOR ON-LINE STRUCTURAL VIBRATION SUPPRESSION VIA ADAPTIVE MATERIALS Pennsylvania State University	K	N 36 03/08/92 \$269,694	WU 92-NA-373	
NONLINEAR FRACTURE MECHANICS OF ADVANCED COMPOSITES Univ of Wisconsin	M	N 36 03/08/92 \$275,720	JONES 92-NA-374	
AMPLE CRYSTAL SUPPERLLOYS: CONSTITUTIVE EQUATIONS AND COMPUTATIONAL PROCEDURES Massachusetts Institute of Technology	Lallit	N 36 03/08/92 \$437,822	JONES 92-NA-375	
ION-LINEAR CANON VIBRATION OF FILAMENTARY COMPOSITE STRUCTURES Michigan State University	Ronald	N 24 03/08/92 \$164,253	WU 92-NA-376	
THE MICROMECHANICS OF DEFORMATION AND FAILURE IN METAL-MATRIX COMPOSITES Brown University	Alon	N 36 04/08/92 \$291,000	JONES 92-NA-377	\$107,264 15/12/92 \$318,046
MODELING CONSTITUTIVE RESPONSE AND STRENGTH OF MMC UNDER COMPRESSIVE LOADING Cattelle Memorial Institute	Golan	N 36 04/08/92 \$318,046	A JONES 92-NA-378	
MICROSENSORS FOR FLUID FLOW APPLICATIONS Stanford University	Lambertu	N 36 07/08/92 \$1,086,340	MCMICHAEL 92-NA-379	
THE FORCED VISCOELASTIC WALL-JET EFFECTS ON PRESSURE GRADIENT AND CURVATURE Univ of Arizona	Israel	N 12 07/08/92 \$151,114	A MCMICHAEL 92-NA-380	\$151,114 16/01/93 \$151,114

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THEORETICAL STUDIES OF TUMBLING ATOMIZED FLOW	Donat	N 36 07/08/92 \$357,000	LEWIS 92-NA-381	
Caltech University				
ACROSTRUCTURAL MECHANICS OF GRANULAR MEDIA	Ferrari	N 36 07/09/92 \$438,821	LEWIS 92-NA-382	
Univ of California Berkeley				
THROUST INDUCED EFFECTS ON PITCH UP DELTA WING FLOW FIELD	Luiz	N 36 07/08/92 \$745,517	A FANT 92-NA-383	\$235,039 15/11/92 \$745,517
Florida A&M University	Laurence			
STABILITY AND CONTROL OF LONGITUDINAL VORTICES	Khorsini	N 36 10/08/92 \$244,864	MCMICHAEL 92-NA-384	
High Technology Corp				
WAVELENGTH PROPAGATION IN RANDOM MEDIA	Martin	N 36 10/08/92 \$137,738	LEWIS 92-NA-385	
Michigan State University	Ostojic-Starzowski			
SECOND INTERNATIONAL CONFERENCE ON DISCRETE ELEMENT METHODS	John	N 07 20/08/92 \$8,210	LEWIS 92-NA-386	
Massachusetts Institute of Technology	Williams			
THE DURABILITY OF REINFORCED POLYMERS UNDER ADVERSE ENVIRONMENTS:	Y	N 36 26/08/92 \$320,000	JONES 92-NA-387	
OUTERFACE EFFECTS	Plazott			
Univ of Toronto				
NUMERICAL STUDIES FOR THE RAM ACCELERATOR	Oran	N 12 26/08/92 \$120,000	YISHKOFF 92-NA-388	
Naval Research Laboratory				
NON-LINEAR EVIDENCE INTERACTION OF COMPOSITE PLATES UNDER STATIC	Antony	N 24 26/08/92 \$120,651	JONES 92-NA-389	
CIRCULAR LOADING: EXPERIMENT & ANALYSIS	Alas			
Univ of Michigan				

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EXPERIMENTAL AND THEORETICAL INVESTIGATION OF CRITICAL REACTIONS IN ALKANE COMBUSTION Cornell University	Correiter Berry	N 36 27/08/92 \$550,732	TISHKOFF 92-NA-390	
FRACTURE PROCESS ZONE STUDIES OF HIGH TEMPERATURE STRUCTURAL CERAMICS Univ of Houston	White Kenneth	N 35 27/08/92 \$594,143	JONES 92-NA-391	
A NEW APPROACH FOR MODELING CONVENTIONAL MATERIALS 3-Cu9ed	Reed Harold	N 24 31/08/92 \$149,538	LEWIS 92-NA-392	
EXPERIMENTAL STUDY OF FACTOR CONTROLLING INSTABILITY OF FRICTIONAL ADHERIAL Univ of California, Los Angeles	Lida Paul	N 36 31/08/92 \$282,074	LEWIS 92-NA-393	
TWO PHASE MECHANICS OF FLOW, DIFFUSION AND DEFORMATION OF POLY- ELASTIC MEDIA Massachusetts Institute of Technology	Lee Chiang	N 36 31/08/92 \$325,814	LEWIS 92-NA-394	
PHOTOElastic QUANTITATIVE STUDY OF THE BEHAVIOR OF GRANULAR MATERIAL - FRICTION ALONG AN INTERFACE Univ of Massachusetts at Lowell	Polakowsky Samuel	N 36 31/09/92 \$256,362	LEWIS 92-NA-395	
CONSTITUTIVE MODELING OF METAL MATRIX COMPOSITES UNDER CYCLIC LOADS Louisiana State University	Toyadji George	N 36 09/09/92 \$232,707	A JONES 92-NA-396	\$35,310 01/04/93 \$111,586
HYBRID CERAMIC MATRIX COMPOSITES Univ of Missouri	Dharani Lokeswarappa	N 24 09/09/92 \$172,699	JONES 92-NA-397	
FLOW CONTROL USING NEURAL NETWORKS Ohio State Univ Research Foundation	Harbert Thorwald	N 36 03/07/92 \$431,278	A MICHAEL 92-NA-398	\$145,327 01/01/93 \$431,278

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PRODUCTION RESEARCH ON THE EFFECT OF FLAME PLASMA ROCKET	CHANG-GLAZ	R 12 07/09/92 \$120,000	BIRKAN 92-NA-399	
Massachusetts Institute of Technology				
EFFECT OF MICROSTRUCTURE ON THE DYNAMIC BEHAVIOR OF GRANULAR AND PARTICULATE MATERIALS	Stukla	M 36 16/09/92 \$349,472	LEWIS 92-NA-400	
Univ of Rhode Island				
PERISILE PROPERTIES OF UNCEMENTED GRANULAR MATERIALS	Stevens	N 15 16/09/92 \$56,138	LEWIS 92-NA-401	
Indiana State University				
COMPUTER SUPPORT FOR THERMAL HERBERT	Mages	M 12 17/09/92 \$5,000	A SAKELL 92-NA-402	\$5,000 01/10/92 \$5,000
Air Force Weapons Lab				
PROVIDE COMPUTER SUPPORT ON AFWL STAY 2	Mages	N 12 21/09/92 \$2,000	A SAKELL 92-NA-403	\$2,000 01/10/92 \$2,000
Air Force Weapons Lab				
SUPPORT IUTAM SYMPOSIUM PROBABILISTIC STRUCTURAL MECHANICS: ADVANCES IN STRUCTURAL RELIABILITY METHODS	WU	N 02 22/09/92 \$10,000	D CHANG 92-NA-404	
Southeast Research Institute				
SIMULATION OF THE AEROTHERMODYNAMICS FOR INTEGRATED HYPERSONIC AIRCRAFTING PROPULSION SYSTEMS	Hamed	N 36 29/09/92 \$727,104	SAKELL 92-NA-405	
Univ of Cincinnati				
A PROPOSAL FOR OPTIMAL AND SUBOPTIMAL PLACEMENT OF ACTUATORS AND SENSORS	Choudhury	N 12 29/09/92 \$162,745	WU 92-NA-406	
Iowa State University				

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1. BREATH-TOOL FROSTMANIC RILER REDUCES FOR THE APPLICATION OF FIXED METAL OXIDE FILTERS UNIV of Georgia	Kinn	N 36 06/07/92 \$437,168	SURGGRAF 92-NC-298	
2. THERMODYNAMICS AND PHASE BEHAVIOR OF SOL-GEL GENERATED INORGANIC- ORGANIC COPOLYMERS AND THEIR ALLENDS UNIV of Massachusetts	Karasz	N 36 06/07/92 \$630,381	LEE 92-NC-299	
3. ULTRAFAST SCINTILLATORS FOR TRANSMISSION TOMOGRAPHY Boston University	Lewicki	N 36 08/07/92 \$735,973	ERSTFELD 92-NC-300	
4. MATERIALS DEGRADATION AND AGING OF AEROSPACE STRUCTURES Georgia Institute of Tech	Aturi	N 48 08/07/92 \$3,371,836	ERSTFELD 92-NC-301	
5. FATIGUE ANALYSIS FOR IN SITU FIELD MONITORING OF FATIGUE LIFE OF AIRCRAFT METAL UNIV of Wyoming	Slaughter	N 36 10/07/92 \$9,400	ERSTFELD 92-NC-302	
6. ADVANCED INSTRUMENTATION AND MEASUREMENTS FOR EARLY NONDESTRUCTIVE EVALUATION OF DAMAGE AND DEFECTS IN AEROSTRUCTURES AND AGING AIRCRAFT Purdue University	John	N 48 10/07/92 \$3,044,513	ERSTFELD 92-NC-303	
7. NONDESTRUCTIVE PERFORMANCE AND RELIABILITY EVALUATION OF USED AIRCRAFT CONSIDERING MATERIAL DEGRADATION, CORROSION, AND FATIGUE UNIV of Arizona	Halder	N 48 10/07/92 \$2,224,539	ERSTFELD 92-NC-304	
8. STUDY OF DEFECTS CAUSED BY FATIGUE IN METALS AND FIBER STRENGTHENED CERAMIC COMPOSITES UNIV of Missouri	Lalighy, Jr.	N 48 10/07/92 \$4,383,884	ERSTFELD 92-NC-305	
9. ENVIRONMENTAL DEGRADATION AND FATIGUE IN AIRCRAFT STRUCTURAL MATERIALS-RELATIONSHIP BETWEEN ENVIRONMENTAL DUTY & COMPONENT LIFE Massachusetts Institute of Technology	Regis v.	N 48 10/07/92 \$3,183,327	ERSTFELD 92-NC-306	

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MATERIALS DEGRADATION AND FATIGUE IN AIRCRAFT STRUCTURES Univ of Utah	McGeehee David	N 48 10/07/92 \$3,830,511	ERSTFELD 92-MC-307	
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF MATERIAL DEGRADATION FOR AIRCRAFT STRUCTURES Univ of Arizona	Kundu Tribikram	N 48 10/07/92 \$2,032,633	ERSTFELD 92-MC-308	
THE DEVELOPMENT OF ADVANCED CARBON-CARBON COMPOSITES FOR AEROSPACE STRUCTURAL APPLICATIONS Univ of Oklahoma	Kline Ronald	N 48 10/07/92 \$3,058,067	ERSTFELD 92-MC-309	
MODELING AND EXPERIMENTAL VERIFICATION OF INTERFACIAL PROCESSES CONTRIBUTING TO THE PERFORMANCE OF INTERMETALLIC & CERAMIC MAT. CO Pennsylvania State University	Hallmann John	N 48 10/07/92 \$4,586,592	ERSTFELD 92-MC-310	
MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES Purdue University	Brundt, Jr. Allen	N 48 10/07/92 \$3,548,522	ERSTFELD 92-MC-311	
THERMAL AND MECHANICAL FATIGUE OF CERAMIC COMPOSITES AS A FUNCTION OF VOLUME FRACTION REINFORCEMENT Michigan State University	Casse Eldon	N 48 10/07/92 \$2,531,606	ERSTFELD 92-MC-312	
UNDERSTANDING, DETECTING AND CHARACTERIZING CORROSION IN AIRCRAFT STRUCTURES Iowa State Univ of Science and Tech	Casse James	N 48 10/07/92 \$4,055,580	ERSTFELD 92-MC-313	
MATERIALS DEGRADATION AND FATIGUE UNDER EXTREME CONDITIONS Univ of Illinois	Jonas Jiri	N 48 10/07/92 \$2,997,893	ERSTFELD 92-MC-314	
MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES Univ of Illinois	Tinn Thomas C.	N 48 10/07/92 \$4,095,779	ERSTFELD 92-MC-315	

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CORROSION AND FATIGUE OF AEROSPACE STRUCTURAL MATERIALS: CHEMISTRY, MICROMECHANICS AND RELIABILITY Louisiana University	Robert	N 48 10/07/92 \$2,990,000	ERSTFELD 92-NC-316	
MATERIALS DEGRADATION AND FATIGUE IN AEROSPACE STRUCTURES: MECHANISMS, IDENTIFICATION, PREVENTION AND REMEDIATION Univ of Central Florida	David	N 48 10/07/92 \$3,498,468	ERSTFELD 92-NC-317	
FATIGUE CRACK INITIATION: FUNDAMENTAL AND ENVIRONMENTAL ISSUES Northeastern University	Yip	N 36 10/07/92 \$2,973,884	ERSTFELD 92-NC-318	
ADVANCED STUDIES IN THE DEGRADATION AND FATIGUE OF AEROSPACE MATERIALS Florida International University	Cherepanov	N 48 13/07/92 \$3,445,846	ERSTFELD 92-NC-320	
DAMAGE NUCLEATION IN AEROSPACE MATERIALS FROM CORROSION AND FATIGUE Univ of New Mexico	Timothy	N 48 13/07/92 \$2,226,244	ERSTFELD 92-NC-321	
MATERIALS DEGRADATION IN CERAMIC STRUCTURES Univ of Dayton	Vinod	N 48 13/07/92 \$3,303,072	ERSTFELD 92-NC-322	
A FOCUSED, FUNDAMENTAL STUDY ON PREDICTING MATERIALS DEGRADATION Univ of Florida	Whitney	N 48 13/07/92 \$4,265,444	ERSTFELD 92-NC-323	
RAMI-A NEW SEMIEMPIRICAL METHOD INCLUDING 0-0RBITALS Univ of Missouri	Holder	N 24 13/07/92 \$256,066	A HEDBERG 92-NC-324	\$130,192 01/03/93 \$256,067
SYNTHESIS AND CHARACTERIZATION OF NEW NONLINEAR OPTICAL AND PHOTOCONDUCTIVE FILMS Univ of Maryland	Stephen	N 36 13/07/92 \$137,362	LEE 92-NC-325	

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MILIMAS POLYMERIC COMPOUNDS Univ of Florida	Anthony	N 36 13/07/92 \$377,776	LEE 92-NC-326	
THEORY OF METAL/OXIDE INTERFACIAL STRUCTURE AND JOINING Case Western Reserve University	Lebright	N 36 13/07/92 \$376,787	BURGGRAB 92-NC-327	
DESIGN, SYNTHESIS AND CHARACTERIZATION OF NOVEL NONLINEAR OPTICAL MATERIALS State University of New York	Paras	N 36 13/07/92 \$1,002,825	LEE 92-NC-328	
RATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE NONLINEAR OPTICAL MATERIALS Northwestern University	Tobin	R 12 14/07/92 \$280,000	LEE 92-NC-329	\$280,000 01/12/92 \$280,000
A MULTIDISCIPLINARY APPROACH TO ACTIVELY CONTROLLED HIGH-PERFORMANCE ALMS Univ of Washington	LY	N 48 14/07/92 \$2,160,120	ERSTFELD 92-NC-330	
ATOMISTIC STUDY OF MATERIALS SURFACE DEGRADATION AND PROTECTION UTILIZING LOW-ENERGY BEAMS OF U ⁴⁰⁺ Univ of Denver	Robert	N 36 14/07/92 \$939,030	ERSTFELD 92-NC-331	
EFFECTS OF SUPERCRITICAL CONDITIONS ON THERMAL DEGRADATION OF NOVEL HYDROCARBONS AND FUELS AND ON FORMATION OF SOLID DEPOSITS Pennsylvania State University	Smith	N 36 20/07/92 \$310,340	HEDBERG 92-NC-334	
CHARACTERIZATION OF MATERIALS DEGRADATION DUE TO CORROSION AND FATIGUE IN AEROSPACE STRUCTURES Univ of California, Los Angeles	Ajit	N 48 21/07/92 \$3,154,520	ERSTFELD 92-NC-335	
NOVEL FERROMAGNETIC MATERIALS Princeton University	Amar	N 36 21/07/92 \$338,021	LEE 92-NC-336	

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SYNTHESIS AND PROCESSING OF MULTI-LAYER CERAMICS FOR AEROSPACE APPLICATIONS Massachusetts Institute of Technology	Shine Edward	N 35 24/07/92 \$903,647	BURGGRAPH 92-NC-339	
INVESTIGATE THE MICROSTRUCTURAL DEVELOPMENT OF SOLID STATE REACTIONS FOR PROCESSING YTTRIUM-ALUMINUM-GARNET(YAG) CERAMIC COMP Ballistic Pacific Northwest Laboratories	Edward	N 36 27/07/92 \$600,000	BURGGRAPH 92-NC-341	
CRACK BEHAVIOR OF COARSE-GRAINED CERAMICS AT LOW STRAIN RATES Univ of California, Irvine	Jeffrey	N 36 27/07/92 \$286,635	BURGGRAPH 92-NC-342	
ENHANCEMENT OF LOW-TEMPERATURE DUCTILITY AND TOUGHNESS IN GAMMA TITANIUM ALUMINIDE DUE TO MARTENSITIC TRANSFORMATION ON A DISPERSI Jenison University	Mica	N 36 28/07/92 \$260,110	ROSENSTEIN 92-NC-343	
(FYSI ASERT) NEW POLYMERS AND COMPOSITES WITH ENHANCE OPTICAL POLYMERIZABILITY Northern Illinois University	Charles	N 36 23/07/92 \$88,140	LEE 92-NC-344	\$86,606 30/09/92 \$88,140
MASSIVELY PARALLEL COUPLED CLUSTER AND DENSITY FUNCTIONAL APPROACHES FOR CARBON-60 CATION NEW MATERIALS Rice University	Gustavo	N 36 23/07/92 \$356,755	BURGGRAPH 92-NC-345	
NEW NANOCOMPOSITE MATERIALS WITH HIGH DIELECTRIC PROPERTIES Pennsylvania State University	Rustum	N 36 31/07/92 \$497,901	ERSTFELD 92-NC-346	
ENERGY TRANSFER, RADICAL-MOLECULE, AND ION-MOLECULE REACTIONS IN ALKENES AND SILANES Univ of Pittsburgh	Michael	N 36 31/07/92 \$331,381	BERMAN 92-NC-347	
PHYSICAL CHEMISTRY OF ENDOGENIC METALLIC COMPOUNDS Univ of Utah	Robert	N 36 03/08/92 \$274,327	BERMAN 92-NC-348	

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N 24 03/03/92 \$217,357	ERSTFELD 92-NC-349	
N 36 03/09/92 \$526,722	LEE 92-NC-350	
N 36 03/09/92 \$660,000	ERSTFELD 92-NC-351	
N 12 04/08/92 \$7,000	D ERSTFELD 92-NC-352	
N 12 05/09/92 \$1,000	D ERSTFELD 92-NC-353	
N 06 05/08/92 \$49,839	A LEE 92-NC-354	\$49,839 15/10/92 \$49,839
N 36 06/08/92 \$100,000	HEDBERG 92-NC-355	
N 36 06/08/92 \$370,977	ERSTFELD 92-NC-356	
N 36 07/08/92 \$484,321	D ERSTFELD 92-NC-357	

STUDY OF INTERFACIAL PHENOMENA WITH MOLECULES
 RELEVANT TO THE SPACE ENVIRONMENT
 Univ of Denver

INVESTIGATOR

Robert

MULTI-FUNCTIONAL PI-CONJUGATED MACROMOLECULES BASED ON
 POLY(PHENYLENE VINYLENE)
 Univ of Massachusetts

Frank

DETERMINATION OF THE TRIBOLOGICAL FUNDAMENTALS OF SILICON AND
 DIAMOND FOR MICRO-AND MACROMECHANISM APPLICATIONS
 Hughes Aircraft Co

Michael

THEORETICAL AND COMPUTATIONAL APPROACHES TO INTERFACE PHENOMENA

Sellers

Harrell

PARTICIPANT

Intel-Static Industries

Joseph

COMPOSITE PHOTOREFRACTIVE MATERIALS

Foster-Miller Inc

Parviz

THERMAL STRESSING IN ADVANCED AIRCRAFT FUELS

United Technologies Research Center

Meredith

HYPERTHERMAL PROCESSING AND MODIFIED INTERFACE CHEMISTRY FOR
 IMPROVED TRIBOLOGICAL COATINGS
 Dartmouth College

Gibson

ALYL DERIVATIVES AND POLYMERS OF HYDROXYMETHACRYLATE

Univ of Wisconsin

Robert

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SEMI-FLUOROPOLYMER POLYMERIZATION FOR GIANT W/O RESPONSE - SYNTHESIS, MORPHOLOGY, W/O AND THEORY Univ. of Cambridge--Research Grants Dept	Warner	N 36 11/08/92 \$266,226	LEE 92-NC-358	
TRANSFORMATION WEAKENING OF CERAMIC COMPOSITE INTERFACES Univ of Illinois	Kniven	N 12 12/08/92 \$88,578	BURGGRAF 92-NC-359	
THE STRUCTURE OF NONCRYSTALLINE SOLIDS STUDIED BY PRESSURE- INDUCED TRANSFORMATIONS Cornell--Fellow University	Hammack	N 36 12/08/92 \$656,633	ERSTFELD 92-NC-360	
CATALYTIC AND TRANSPORT MECHANISMS OF SUPERCRITICAL FUELS Forrester Polytechnic Institute	Hofer	N 36 12/08/92 \$455,970	ERSTFELD 92-NC-361	
ELEVATED TEMPERATURE PERFORMANCE OF POLYMER MATRIX COMPOSITES IN RELATION TO CURE AND POSTCURE PROCESSING CYCLES Univ of Washington	Jefferys	N 36 14/08/92 \$237,480	LEE 92-NC-362	
REACTION OF ADVANCED FUELS AT SUPERCRITICAL AND NEAR-CRITICAL CONDITIONS OVER METAL CATALYSTS Yale University	Pfefferle	N 60 14/03/92 \$915,868	ERSTFELD 92-NC-363	\$163,599 01/01/93 \$504,321
PROCESSING AND PROPERTIES OF TOUGH SILICIDES State Eastern Reserve University	Lysandowski	N 36 14/08/92 \$504,321	A ROSENSTEIN 92-NC-364	
NEW OPTICALLY ACTIVE ORMOSILS WITH IN SITU ORGANIC-INORGANIC INTERACTIONS Univ of California, Los Angeles	Mackenzie	N 36 13/08/92 \$231,191	LEE 92-NC-365	
FUNDAMENTAL UNDERSTANDING OF THE STRUCTURAL AND CHEMICAL CHANGES OCCURRING IN OXIDATION TESTED LIGHTED CARBON/CARBON Tuskegee University	Shank	N 36 13/08/92 \$464,329	ERSTFELD 92-NC-366	

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NEW CLASS OF HIGH TEMPERATURE POLYMER-BLENDED POLYMER MULTILAYER MATERIALS FOR HIGH-ENERGY OPTICAL APPLICATIONS Alpha Lab Inc	Angelo	N 36 18/08/92 \$198,597	LEE 92-NC-367	
DEVELOPMENT OF OXYGEN SCAVENGER ADDITIVES FOR JET FUELS Duquesne University	Bruce Jeever	N 24 19/08/92 \$151,292	HEDBERG 92-NC-368	
MICROSCOPIC MODELING OF NANOTECHNOLOGY LUBRICATION AND WEAR, SURFACE PROCESSING, AND NANOSTRUCTURES		N 36 19/08/92	BURGGRAF	

Georgia Institute of Tech	Landman	U-1	\$426,599	92-NC-369
A STUDY ON PROCESSING, MECHANICAL PROPERTIES AND MICROSTRUCTURE OF NEW GAMMA TITANIUM ALUMINIDES AND THEIR COMPOSITES Polytechnic University	Landman	Sung	N 36 21/08/92 \$534,194	ROSENSTEIN 92-NC-370
CAPACITIZATION AND EFFECTS OF JOINT TO US UNDER EFFECTS OF TEMPERATURE AND PRESSURE State University of New York	Brigit	Frank	N 36 03/09/92 \$573,444	HEDBERG 92-NC-371
INVESTIGATIONS OF METAL ADHESION AND REACTIONS ON SOLID LUBRICANT SURFACES USING SCANNED PROBE MICROSCOPES Harvard University	Lieber	Charles	N 36 04/09/92 \$577,363	ERSTFELD 92-NC-372
SECONDARY RECRYSTALLIZATION IN HOT ROLLED FINE DISPERSION STRENGTHENED MAT54 SHEET Michigan State University	Staler	Thomas	N 36 08/09/92 \$163,106	ROSENSTEIN 92-NC-373
POLYMER-CERAMIC/GLASS COMPOSITES Univ of Massachusetts at Lowell	Donner	Francis	N 36 09/09/92 \$329,745	LEE 92-NC-374
MECHANISMS OF HIGH-TEMPERATURE FATIGUE-CRACK GROWTH AND LOAD-TEMPERATURE TOUGHNESS IN MONOLITHIC AND COMPOSITE INTERMETALLIC AL Univ of California, Berkeley	Richie	Robert	N 36 14/03/92 \$650,259	ROSENSTEIN 92-NC-375

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COMPLEX AND STENOCHORDIAL MOLECULAR OPTICAL MATERIALS	Alison	N 06 16/09/92 \$57,339	A LEE 92-NC-376	\$57,339 15/12/92 \$57,339
Interfacial Phenomena at Carbon Surfaces in Oxygen Environments	John	N 36 28/09/92 \$352,463	BURGGRAD 92-NC-377	
A MECHANISTIC APPROACH TO LARGER MOLECULAR THIRD ORDER OPTICAL POLARIZABILITIES	John	N 36 28/09/92 \$422,547	LEE 92-NC-378	
First International Workshop on G-Jitter	Liya	N 12 28/09/92 \$59,389	D ERSTFELD 92-NC-379	
Hydrogen Tolerance of Gamma-Ray Microstructures	Trasa	N 26 23/09/92 \$435,000	ROSENSTEIN 92-NC-380	
Band Structure Engineering with Semiconductor Clusters	Richard	N 36 28/09/92 \$476,288	ERSTFELD 92-NC-381	

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TITLE (CONT.)
INSTITUTION

RESEARCH TOWARDS AND OF ELECTRONIC AND MATERIAL SCIENCES
BASIC RESEARCH IN SEMICONDUCTOR MATERIALS
Univ of California, Santa Barbara

5

INVESTIGATOR

Allen, Jr

SUPERCONDUCTIVE ORGANIC POLYMERS: CONCEPTUAL DESIGN, SYNTHESIS,
AND CHARACTERIZATION
Univ of Texas

Ronald

Eisenbaumer

SUPERCONDUCTIVITY IN CAGE FULLERENES

Lehigh University

Lindes

Mortimer

NOVEL X X M INTEGRATED CHANNEL WAVEGUIDE OPTICAL CROSSCARS FOR
LARGE SCALE HIGH SPEED NON-BLOCKING DATA SWITCHING
Physical Optics Corporation

Michael

LEARNING TUNNELING ALGORITHMS FOR FABRICATION OF MESOSCALE
SUPRAELECTRONIC DEVICES
Polytechnic University

E

QUANTUM OPTICAL STUDIES OF SEMICONDUCTORS

Univ of Michigan

Steel

WAVELENGTH TRANSLATION TECHNOLOGY FOR ALL-OPTICAL NETWORK

Durham Aircraft Corp Research Labs

Lyn

J

INTERMETALLIC - SEMICONDUCTOR SUPERLATTICES

Univ of Minnesota

Cohen

Philip

INVESTIGATIONS OF ATOMIC PHYSICS WITH A COYGENIC HYDROGEN LASER

Swinsomson Institution

Vossat

Robert

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N 36 01/07/92 \$393,669	POMRENKE 92-NE-335	
N 26 10/07/92 \$550,000	A WEINSTOCK 92-NE-336	\$180,000 30/09/92 \$550,000
N 36 10/07/92 \$316,939	A WEINSTOCK 92-NE-337	\$105,997 30/09/92 \$316,939
N 06 15/07/92 \$50,501	A CRAIG 92-NE-338	\$54,166 30/09/92 \$50,501
N 36 16/07/92 \$426,772	A WEINSTOCK 92-NE-339	\$149,556 01/11/92 \$426,772
N 36 16/07/92 \$866,451	A SCHLOSSER 92-NE-340	\$228,563 15/01/93 \$709,974
N 36 16/07/92 \$862,577	CRAIG 92-NE-341	
N 36 16/07/92 \$195,346	A POMRENKE 92-NE-342	\$58,911 01/10/92 \$195,346
0 24 16/07/92 \$459,550	KELLEY 92-NE-343	

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WORKSHOP ON THE ROAD TO ROOM TEMPERATURE SUPERCONDUCTIVITY Stanford University	Seballe Therence	N 03 16/07/92 \$8,000	A WEINSTOCK 92-NE-344	\$8,000 01/10/92 \$8,000
HOLOGRAPHIC MULTIPLEXING FOR 3D OPTICAL MEMORY Costum-Miller Inc	Jomash Lawrence	N 06 22/07/92 \$43,894	A CRAIG 92-NE-345	\$49,894 30/09/92 \$49,894
STUDY OF ADVANCED APPLICATIONS OF WAVE-PARTICLE INTERACTION Texas Tech University	Isinhardt Graham	N 36 22/07/92 \$127,758	BARKER 92-NE-346	
LASER PROBLEMS OF II-V AND II-VI SEMICONDUCTOR GROWTH Univ of Colorado	Lione Stephen	R 36 22/07/92 \$393,983	POMRENKE 92-NE-347	
ORGANIZATION OF 1992 NONLINEAR OPTICS: MATERIALS, FUNDAMENTALS AND APPLICATIONS SECOND TOPICAL MEETING Optical Society of America	Quinn Jarvis	N 12 23/07/92 \$4,057	A CRAIG 92-NE-348	\$4,000 19/08/92 \$4,057
ANOMALOUS PLASMA ABSORPTION OF ELECTROMAGNETIC RADIATION Javal Research Laboratory	Rowland Harvey	N 02 24/07/92 \$383	A BARKER 92-NE-349	\$383 01/09/92 \$383
OPTICAL STORAGE BASED ON PERSISTENT SPECTRAL HOLE BURNING City University of New York	Alfano Robert	N 36 31/07/92 \$535,488	A CRAIG 92-NE-350	\$249,099 01/12/92 \$692,338
ADVANCED HETEROSTRUCTURE TRANSISTORS Engineering Foundation	Freiman Charles	N 04 31/07/92 \$5,000	MITT 92-NE-351	
A COMPUTATIONAL SEARCH AIDS SEMICONDUCTOR CRYSTALS FOR SUPERIOR MATERIALS FOR SECOND HARMONIC GENERATION Ohio State University	Levine Zachary	N 36 31/07/92 \$451,991	POMRENKE 92-NE-352	

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TITLE (CONT.)
INSTITUTION

INVESTIGATOR

(U) F) ULTRA-HIGH SPEED SOUND CONDUCTOR PHOTONICS

Cornell University

SPUSIUS

J

RESEARCH SUPPORT FOR THE LABORATORY FOR LIGHTWAVE TECHNOLOGY

Cornell University

Maria

T

THEORY OF NONLINEAR OPTICAL PROPERTIES OF FRACIAL MEDIA AS NOVEL
OPTICAL MATERIALS

Washington State University

George

Thomas

PERSISTENT CURRENT NEOSCREENED RINGS WITH STRONG-ELECTRON AND
STATIC DISORDER

City University of New York

Schweitzer

David

COMPUTER SUPPORT FOR NONLINEAR OPTICAL PROPERTIES IN
QUANTUM RINGS AND ORGANIC QUANTUM DOTS

Univ of Alabama

Isidoro

Frank

ARSENIC CLUSTER ENGINEERING

Burdue Research Foundation

Malloch

Michael

A STUDY OF INVALUABLE (C-V) AND EPI-LAYERS ON GaAs AND IMP
THIN SUBSTRATES FOR APPLICATIONS IN OPTOELECTRONICS DEVICES

Univ of Virginia

Yoon

Elias

NOVEL METHODS OF ACCELERATION

Cornell University

Nation

John

ADVANCED PHIL-FILM DEPOSITION AND PHYSICAL PROPERTIES OF
HIGH-TEMPERATURE AND OTHER NOVEL SUPERCONDUCTING MATERIALS-HELIUM

Stanford University

Leahy

Malcolm

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N 36 03/09/92 \$1,849,827	SMITH 92-NE-353	\$220,000 01/01/93 \$660,000
N 36 03/09/92 \$746,243	A SCHLOSSBER 92-NE-354	
N 36 04/08/92 \$494,667	SCHLOSSBER 92-NE-355	
N 12 04/08/92 \$92,791	D WEINSTOCK 92-NE-356	\$6,750 20/08/92 \$6,750
N 36 04/08/92 \$6,750	A POMREKE 92-NE-357	\$99,899 01/12/92 \$314,220
N 01 07/08/92 \$314,220	A WITT 92-NE-358	
N 36 24/08/92 \$333,137	CRAIG 92-NE-359	
R 12 24/08/92 \$217,000	A BARKER 92-NE-361	\$217,755 01/02/93 \$217,755
N 02 25/08/92 \$17,500	A WEINSTOCK 92-NE-362	\$17,500 17/07/92 \$17,500

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LOW NOISE ELECTRONIC SIGNAL CHARACTERIZATION AND EXPERIMENTS	Jones North Carolina Central University	N 36 26/08/92 \$993,932	SCHLOSSBER 92-NE-363	
RESEARCH IN X-RAY NONLINEAR OPTICS AND SINGLE PARTICLES APPLICATIONS	Kidron Johns Hopkins University	N 36 26/08/92 \$496,684	SCHLOSSBER 92-NE-364	
SYSTEM DESIGN AND ARCHITECTURE OF OPTOELECTRONIC SMART NETWORKS	Fouad Univ of North Carolina	N 36 31/08/92 \$48,000	CRAIG 92-NE-365	
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS	Rodney Univ of Florida	2 36 31/09/92 \$453,068	KELLEY 92-NE-366	
JOINT SERVICES ELECTRONICS PROGRAMS SUPPORT ON THE BASIC RESEARCH PROGRAM OF THE ELECTRONICS RESEARCH LABORATORY	Chenming Univ of California, Berkeley	N 36 03/09/92 \$2,911,423	SMITH 92-NE-367	
STRUCTURAL INVESTIGATIONS ON LOW-TEMPERATURE GROWTH HTE SEMICONDUCTION LAYERS	A Lawrence Berkeley Laboratory	N 36 15/09/92 \$598,637	WITT 92-NE-368	
1993 GORDON RESEARCH CONFERENCE ON SUPERCONDUCTIVITY	Alexander Corion Research Conferences Inc	N 12 15/09/92 15,000	D WEINSTOCK 92-NE-369	
MICROWAVE EMISSION FROM RELATIVISTIC ELECTRON BEAMS	George Massachusetts Institute of Technology	9 12 15/09/92 \$90,000	A BARKER 92-NE-370	\$90,000 01/01/93 \$90,000
EXPERIMENTAL INVESTIGATION OF LARGE-SCALE INDUCTIVE DISCHARGE PLASMA GENERATORS FOR MICROWAVE APPLICATION	Edward Univ of California, Berkeley	N 24 23/09/92 \$368,102	BARKER 92-NE-371	

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ANALYSIS AND ACOUSTIC MECHANISM OF THE FATIGUE PROCESS IN METALS Illinois Institute of Technology	Burdinick	N 36 24/09/92 \$420,558	A WEINSTOCK 92-NE-372	\$134,938 01/01/92 \$420,558
ANTI-PROTON-INDUCED MICROFISSION Pennsylvania State University	Smith Gerald	N 12 28/09/92 \$210,000	KELLEY 92-NE-373	
COHERENT PROCESSES IN ONE- AND TWO-ELECTRON ATOMS IN STRONG RADIATION FIELDS Univ of Maryland	McIlrath Thomas	N 12 30/09/92 \$110,200	KELLEY 92-NE-374	

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 INSTITUTION

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NEW OF ACUTE, ISOLATED LOOP AND THAT IMITATES CHANGES IN SYSTEMIC BLOOD PRESSURES UNDER INCREASED GRAVITATION LOADS/CONSC BAROONS Armstrong Laboratory	David	N 06 31/07/92 \$26,064	A BOLAND 92-NI-044	\$2,172 15/09/92 \$26,064
	Self			
SPACETIME PHYSICS California Institute of Technology	Murray	N 12 12/08/92 \$175,091	A BOLAND 92-NI-045	\$14,709 01/09/92 \$14,709
	Bill-mann			
DEVELOPMENT OF ACUTE, ISOLATED LOOP PREP THAT IMITATES CHANGES SYSTEMIC BLOOD PRESSURES UNDER INCREASED GRAVITATION LOADS IN CONSCIOUS BAROON Armstrong Laboratory	David	N 06 01/09/92 \$23,892	A BOLAND 92-NI-046	\$23,892 01/10/92 \$23,892
	Self			
SPACETIME PHYSICS California Institute of Technology	Murray	N 03 04/09/92 \$160,382	A BOLAND 92-NI-047	\$44,594 01/10/92 \$5,722
	Bill-mann			
ADAPTABLE METEOROLOGICAL DISCONTINUED SYSTEMS Syriacus University	Gary	N 09 13/09/92 \$68,353	A BOLAND 92-NI-048	\$68,353 01/10/92 \$68,353
	Self			
INVESTIGATIONS INTO GROUP SUPPORT TECHNOLOGY West Virginia University	Michael	N 10 22/09/92 \$70,533	A BOLAND 92-NI-049	\$70,533 01/10/92 \$70,533
	Self			
SIMULATING SELF MOTION IN VIRTUAL ENVIRONMENTS: PSYCHOPHYSICAL AND CONTROL THEORETIC IMPLICATIONS FOR RESEARCH AND DESIGN Univ of Illinois	Gary	N 11 23/09/92 \$43,822	A BOLAND 92-NI-050	\$43,822 01/10/92 \$43,822
	Ricco			

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FILE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COMMITTEE ON BIOETHICS National Academy of Sciences	William	N 12 02/07/92 \$15,000	A DICKINSON 92-NL-218	\$15,000 01/10/92 \$15,000
COMPUTATIONAL MODELING OF CONTAMINANT TRANSPORT AND BIOGRADIATION LABORATORY FOR FIELD DATA Univ of Minnesota	Walter	N 24 06/07/92 \$127,010	BERRY 92-NL-219	
SELF-CONSISTENT EFFECTS OF MAGNETOSPHERIC HYDROMAGNETIC WAVES ON RING CURRENT IONS Barnabooth College	Mary	N 36 07/07/92 \$235,045	A RADOSKI 92-NL-220	\$93,970 01/01/93 \$295,045
SPARSE DISTRIBUTED CODING OF NATURAL SCENES Cornell University	David	N 36 10/07/92 \$193,501	TANGNEY 92-NL-221	
PERCEPTION FOR TELL-AUTONOMOUS SYSTEMS Univ of Utah	William	N 48 13/07/92 \$3,276,110	TANGNEY 92-NL-222	
ADAPTIVE INFORMATION TRANSFER IN MAN/MACHINE SYSTEMS Univ of Michigan	Yorta	N 48 13/07/92 \$1,307,996	TANGNEY 92-NL-223	
FROM NEURONS TO NETWORKS: INTEGRATIVE ASPECTS OF RECIPROCAL ACTION-CONTROL PATHWAYS IN OPTIMATE VISION Univ of Mass Medical Center	Daniel	N 48 13/07/92 \$2,932,113	TANGNEY 92-NL-224	
COMMUNICATING SITUATION AWARENESS IN VIRTUAL ENVIRONMENTS Univ of Washington	Thomas	N 48 13/07/92 \$3,983,529	TANGNEY 92-NL-225	
NEARLY SUPERVISED IMAGE UNDERSTANDING AND OBSERVATION USING AN INTELLIGENT MULTIMODAL INTERFACE State University of New York	David	N 48 13/07/92 \$3,241,737	TANGNEY 92-NL-226	

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CONTRACT FOR NEUROSYSTEMS RESEARCH Rockefeller University	Gilbert Charles	N 48 14/07/92 \$3,371,716	TANGNEY 92-NL-227	
RENEWAL OF A UNIV RESEARCH INITIATIVE TO SUPPORT A BOSTON-AREA CONSORTIUM FOR RES ON HUMAN & COMPUTATIONAL SENSORY PROCESSING Boston University	Stephen Grossberg	N 48 14/07/92 \$3,856,594	TANGNEY 92-NL-228	
A NEURAL-KNOWLEDGE BASE AND A DECISION MAKER-PLANNER FOR REAL-TIME MODELING & NAVIGATION OF AUTONOMOUS MOVING PLATFORMS IN 3-D WIDE Area University of New York	Nikolaos Joufakis	N 48 14/07/92 \$3,197,997	TANGNEY 92-NL-229	
ADAPTIVE EXPLORATORY SYSTEM EMPLOYED BY ULTRAFAST TECHNOLOGY Censurion Polytechnic Institute	Richard Park	N 48 14/07/92 \$3,040,743	TANGNEY 92-NL-230	
JOHN HOPKINS SENSORY ENGINEERING PROGRAM Johns Hopkins University	Kenneth Johnson	N 48 14/07/92 \$3,966,099	TANGNEY 92-NL-231	
HUMAN AND COMPUTATIONAL SENSORY PROCESSING Univ of Rochester	Robert Chadman	N 48 14/07/92 \$3,030,998	TANGNEY 92-NL-232	
NEUROBIOLOGICAL MODELING FOR ENHANCED DETECTION AND RECOGNITION OF MICROHAZE TARGETS Univ of Pennsylvania	Bernard Steinberg	N 36 14/07/92 \$1,089,902	TANGNEY 92-NL-233	
LOCAL SPATIO-TEMPORAL ANALYSIS IN VISION SYSTEMS Univ of Texas	Wilson Geisler	N 48 14/07/92 \$3,539,472	TANGNEY 92-NL-234	
INTERACTIVE TETHERLESS MOBILE ROBOTICS Harvard University	Roger Prockett	N 48 14/07/92 \$2,776,830	TANGNEY 92-NL-235	

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ACQUA INFORMATION PROCESSING: VISUAL PERCEPTIVE INTERACTION OF HYPERACTIVITY IN THE EYE OF THE FLY Univ of New Mexico	Conohue	N 24 14/07/92 \$564,445	TANGNEY 92-NL-236	
TESTED FOR VIRTUAL ENVIRONMENTS AND REMOTE INTERACTION WITH SEMI- AUTONOMOUS SYSTEMS Georgia Institute of Tech	Alford	N 48 14/07/92 \$2,851,217	TANGNEY 92-NL-237	
MULTIDIMENSIONAL EVALUATION OF DISPLAYS AND CONTROL IN VIRTUAL ENVIRONMENTS Univ of California, Santa Cruz	Bridgeman	N 48 14/07/92 \$3,772,966	TANGNEY 92-NL-238	
VISION-BASED ADAPTIVE EXPLORATION AND OBJECT RECOGNITION Yale University	Acunmott	N 48 15/07/92 \$2,767,434	TANGNEY 92-NL-239	
UNIVERSITY RESEARCH INITIATIVE IN HUMAN AND COMPUTATIONAL SENSORY PROCESSING Univ of Central Florida	Shah	N 48 15/07/92 \$2,795,739	TANGNEY 92-NL-240	
USER & SYSTEM MODELS FOR DESIGN & EVALUATION OF SYSTEMS FOR THE SENSING & INTERPRETATION OF COMPLEX VIRTUAL ENVIRONMENTS Syracuse Univ - Dept Elec & Computer Eng	Michael	N 48 15/07/92 \$3,392,609	TANGNEY 92-NL-241	
FLEXIBLE ROBOTIC REPAIR Tufts University	Schaefer	N 48 15/07/92 \$3,063,324	TANGNEY 92-NL-242	
HUMAN PERCEPTION IN VIRTUAL ENVIRONMENTS Georgia Institute of Tech	Davis	N 48 15/07/92 \$2,256,049	TANGNEY 92-NL-243	
THE COMPUTATIONAL BASIS OF VISUAL STABILITY, RECOGNITION AND LEARNING Syracuse Univ - Dept Elec & Computer Eng	Davis	N 48 15/07/92 \$3,953,061	TANGNEY 92-NL-244	

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LARGE DATABASE AND COMPUTER SIMULATION ENVIRONMENT FOR BRAIN RESEARCH Univ of California, Los Angeles	Smyrnok	N 48 15/07/92 \$3,571,022	TANGNEY 92-NL-245	
CENTER FOR AUGMENTING SENSORY PROCESSING Univ of Central Florida	Clark	N 48 16/07/92 \$2,250,165	TANGNEY 92-NL-246	
A GLOBAL MODEL FOR HUMAN AND MACHINE VISION Univ of California, Berkeley	Glisser	N 48 16/07/92 \$3,983,488	TANGNEY 92-NL-247	
ANALOG VLSI BASED OCULO-MOTOR SYSTEM California Institute of Technology	Koch	N 48 16/07/92 \$3,970,612	TANGNEY 92-NL-248	
VISUAL PROCESSING BY MAN AND MACHINES: FROM LOW-LEVEL VISION TO NAVIGATION AND OBJECT PERCEPTION Univ of California, Berkeley	Malik	N 48 15/07/92 \$4,000,000	TANGNEY 92-NL-249	
POSTURE-BASED MOTION PLANNING Univ of Massachusetts	Rosenbaum	N 48 16/07/92 \$2,966,162	TANGNEY 92-NL-250	
CENTER FOR THE COMPUTATIONAL AND NEURO-BIOLOGICAL STUDY OF VISION Univ of Southern California	Irving	N 36 16/07/92 \$2,756,363	TANGNEY 92-NL-251	
EVALUATION OF NITROGEN OXIDES AND MICROWAVE RADIATION EFFECTS ON M ACROPHAGES BY DIGITAL IMAGE PROCESSING Univ of Arizona	Olson	N 36 17/07/92 \$247,232	HADDAD 92-NL-252	
INVOLVING NEUROMORPHIC AUTOMATA FOR CAPTURING MANEUVERING TARGETS IN A COMPLEX ENVIRONMENT Univ of Delaware	Liss	N 48 21/07/92 \$2,654,593	TANGNEY 92-NL-253	

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INTERPERSONAL ATTENTION FOR DESIGN WITH TECHNOLOGY	Keyser	N 48 21/07/92 \$1,739,144	TANGNEY 92-NL-254	
Control of eye, hand and limb movements using active, attentional vision	Sandon	N 48 21/07/92 \$2,903,385	TANGNEY 92-NL-255	
DISCRIMINATING UNDERGROUND EXPLOSIONS FROM EARTHQUAKES USING SEISMIC CODA WAVES	AKI	N 24 22/07/92 \$197,018	A DICKINSON 92-NL-256	\$96,263 01/11/92 \$197,018
Univ of Southern California	Kelita			
RETRIEVAL AND STORAGE CONSEQUENCES OF WORKING MEMORY LIMITATIONS	Engle	N 36 28/07/92 \$228,039	A TANGNEY 92-NL-257	
Univ of South Carolina	Randall			
INTEGRATING MULTIPLE SOURCES OF INFORMATION FOR DEPTH: MULTIDIMENSIONAL SOLUTIONS	Postain	N 48 28/07/92 \$626,789	A TANGNEY 92-NL-258	
Univ of Wisconsin	William			
MENTAL REPRESENTATION OF SHAPE	Pizlo	N 36 31/07/92 \$267,738	TANGNEY 92-NL-259	
Purdue Research Foundation	Zygmunt			
SIZE DISTRIBUTION AND PROPERTIES OF SUBMICRON AEROSOL AGGLOMERATES	Friedlander	N 36 04/08/92 \$298,145	STOBIE 92-NL-260	
Univ of California, Los Angeles	Sheldon			
AUDITORY SCENE ANALYSIS: THE PERCEPTUAL ORGANIZATION OF SOUND IN HUMAN LISTENERS	Spreng	N 36 12/08/92 \$447,479	TANGNEY 92-NL-261	
AcSill University	Albert			
LINKING PSYCHOPHYSICS, NEUROPHYSIOLOGY AND COMPUTATIONAL VISION: STEREOPSIS, MOTION, TEXTURE AND ATTENTION	Pinathomas	N 12 12/08/92 \$5,000	TANGNEY 92-NL-262	
Univ of The State University	Thomas			

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TARGET DETECTION IN DIFFERENT TYPES OF COMBINING BACKGROUND AN D APPLICATIONS TO MACHINE VISION Nano Tech Services	Lifton Teri	N 36 17/08/92 \$399,000	TANGNEY 92-NL-263	
VISUAL IMAGE PROCESSING IN TEXTURE SEGREGATION Univ of Oregon	Beck Jacob	N 36 17/08/92 \$306,019	A TANGNEY 92-NL-264	
GRAVITY WAVES AND CONVECTION IN THE ATMOSPHERE JASS - Goddard Space Flight Center	Cinaudi Franco	N 12 19/08/92 \$118,650	A STOBIE 92-NL-265	\$118,650 01/10/92 \$118,650
NEURAL MECHANISMS OF ATTENTION: ROLE OF THE FRONTAL CORTX AND 9AS AL CORREARIN CHOLINERGIC SYSTEM Johns Hopkins University	Oltan David	R 36 21/08/92 \$545,186	TANGNEY 92-NL-266	
STIMULUS IDENTIFICATION AND FEATURE EXTRACTION IN A CRUSTACEAN OLF FACTORY SYSTEM Univ of Virginia	Hellon DeForest	N 36 25/08/92 \$325,847	D TANGNEY 92-NL-267	
COMBINING INFORMATION IN PROBLEM SOLVING San Diego State University Foundation	Reed Stephen	N 36 26/08/92 \$260,941	TANGNEY 92-NL-268	
VIEW-BASED STRATEGIES FOR FORM & MOTION FUSION IN OBJECT RECOGNITI ON AND POINT EXTRACTION: A NATURAL SYSTEMS APPROACH MIT -- Lincoln Lab	Wexman Allen	N 36 27/08/92 \$608,459	TANGNEY 92-NL-269	
A PARALLEL PROCESSING HYPOTHESIS FOR SHORT-TERM AND LONG-TERM MEMO RY IN APLYSIA Yale University	Carpe Thomas	N 36 08/09/92 \$582,639	HADDAD 92-NL-270	
EXPERIMENTAL INVESTIGATION OF THE USE OF HIGH POWER MICROWAVES TO TRIGGER LIGHTNING DISCHARGES IN THE ATMOSPHERE Univ of Maryland	Dastler William	N 36 08/09/92 \$404,411	STOBIE 92-NL-271	

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COGNITIVE PERCEPTION AND PROCESSING OF VISUAL INFORMATION UNIV OF Rochester	David	N 36 08/09/92 \$397,751	HADDAD 92-NL-272	\$156,287 01/12/92 \$319,636
FINITE-ELEMENT MODELING OF THE BLOCKAGE AND SCATTERING OF LG PROPS TION Columbia University	Tong Yu-chiung	N 24 09/09/92 \$319,636	A DICKINSON 92-NL-273	
INDUCED PICTORIAL REPRESENTATIONS Stanford University	Tversky Barbara	R 36 10/09/92 \$271,393	TANGNEY 92-NL-274	
TRACKING MOVING TARGETS WITH ATTENTION Harvard University	Cavanagh Patrick	N 36 10/09/92 \$433,041	TANGNEY 92-NL-275	
THE ORGANIZATION OF THE SUPPLEMENTARY DISCRIMINATOR PACKAGED OF THE AT AND ITS MODULATION BY NEUROTRANSMITTERS AND MODULATORS UNIV OF Illinois	Martha Hillette	N 36 22/09/92 \$637,134	HADDAD 92-NL-276	
EMPIRICAL ANALYSIS AND NEURAL NETWORK MODELING OF STRUCTURAL DESCR PTIONS IN VISUAL SHAPE CLASSIFICATION UNIV OF California, Los Angeles	Turner John	N 60 29/09/92 \$658,834	TANGNEY 92-NL-277	
MENTAL REPRESENTATIONS OF SPATIAL AND NONSPATIAL RELATIONS Vanderbilt University	McNamara Timothy	N 36 23/09/92 \$233,663	TANGNEY 92-NL-278	
CORTICAL MECHANISMS OF ATTENTION, DISCRIMINATION, AND MOTOR RESPON SE TO SOMESTHETIC STIMULI Vanderbilt University	Chapin John	N 36 28/09/92 \$530,691	HADDAD 92-NL-279	

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WAVELENGTH DEPENDENT SCATTERING OF ELECTROMAGNETIC WAVES	Ingber	N 36 01/07/92 \$386,605	SUDDARTH 92-NM-392	
NEW OF ASSOCIATED				
INVESTIGATION OF THE CONTINUOUS RELATION SPECTRUM FOR PLANAR OPEN-BOUNDARY WAVES	Dennis	N 36 01/07/92 \$259,561	NACHMAN 92-NM-393	
Quantum State University				
STUDY SYMPOSIUM: NONLINEAR STABILITY OF NONPARALLEL FLOWS	Sung	N 12 01/07/92 \$40,309	NACHMAN 92-NM-394	
Clarkson University				
ALGORITHMS FOR LARGE-SCALE OPTIMIZATION	Walter	N 36 01/07/92 \$315,306	GLASSMAN 92-NM-395	
Stanford University				
QUANTUM-SPECIFIC MODELS OF COMPUTER VISION	Liziel	R 36 01/07/92 \$595,021	A SJOGREN 92-NM-396	\$155,603 15/11/92 \$486,133
Univ of Maryland				
STOCHASTIC LEARNING DYNAMICS: A NONLINEAR DIMENSION	Todd	N 36 01/07/92 \$329,719	SUDDARTH 92-NM-397	
Dragon Graduate Institute				
COMPUTING WITH STOCHASTIC SIGNALS	Christoph	N 36 01/07/92 \$346,951	SUDDARTH 92-NM-399	
Univ of Southern California				
ENHANCED CONVERGENCE ADAPTIVE DETECTION(CSP423453)	Allen	R 36 01/07/92 \$157,282	A SJOGREN 92-NM-400	\$52,743 01/12/92 \$167,282
Cornell University				
EFFICIENT & ACCURATE DETECTION METHODS FOR LARGE SCALE PROBLEMS	Zoran	N 36 03/07/92 \$256,308	SUDDARTH 92-NM-401	
Washington State University				

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STATISTICAL TECHNIQUES FOR SIGNAL PROCESSING	Cassan	R 24 08/07/92 \$89,000	SJOGREN 92-NM-402	
ENVIRONMENTAL EFFECTS ON SIGNAL PROCESSING	Cassan	N 36 08/07/92 \$290,204	JACOBS 92-NM-403	
ACTIVE CONTROL OF SURGE AND STALL IN AXIAL FLOW COMPRESSORS	Sydd	R 36 08/07/92 \$241,452	SUDDARTH 92-NM-404	
ANALYSIS OF THE EFFECTS OF TRANSPARENT, OPTICALLY HETEROGENEOUS ELECTROMAGNETIC RADIATION USING REALIST MODELS OF HUMANS	Daniel	N 12 03/07/92 \$44,968	NACHMAN 92-NM-405	
AN APPROACH TO MULTIDIMENSIONAL INVARIANT IMBEDDING TECHNIQUES FOR INVERSE SCATTERING OF ELECTROMAGNETIC WAVES	David	N 12 08/07/92 \$76,717	NACHMAN 92-NM-406	
STOCHASTIC NETWORK PROCESSES	Paul	R 12 09/07/92 \$51,628	A SJOGREN 92-NM-407	\$51,628 01/11/92 \$51,628
STOCHASTIC NETWORK PROCESSES	Richard	N 36 09/07/92 \$565,027	A GLASSMAN 92-NM-408	\$130,074 01/11/92 \$405,503
PHYSICAL INTELLIGENCE METHODOLOGIES IN AIR TRANSPORTATION NETWORK ROUTING & SCHEDULING	Mark	N 36 08/07/92 \$1,534,693	JACOBS 92-NM-409	
(MURI) SMART OPTO-MECHANIC POLYMER ACTUATORS AND STROSCOPES	Mark	N 36 08/07/92 \$223,253	JACOBS 92-NM-410	
(MURI) OPTICAL PROPERTIES OF FLUORIDE GLASSES USEFUL FOR LASER	Donald			

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CMU(1) FLIGHT OPTIC FIRST DENSE POLYMER POLYMERIZATION	Vonholdt	N 36 08/07/92 \$2,814,222	JACOBS 92-NM-411	
Campton Institute				
CMU(2) OPTICAL CONSTANTS OF POLYMERS	James	N 36 09/07/92 \$214,018	JACOBS 92-NM-412	
Univ of Alabama				
CMU(3) INTEGRATED SYSTEMS APPROACH FOR SUPERMANEUVERABLE FLIGHT OF A DELTA WING	Anjaneyulu	N 36 09/07/92 \$1,870,464	JACOBS 92-NM-414	
Florida State University				
CMU(4) NONLINEAR DISTRIBUTED ADAPTIVE CONTROL OF HIGH PERFORMANCE AIRSPACE	Ronald	N 36 09/07/92 \$2,970,516	JACOBS 92-NM-415	
Princeton State University				
HIGH SPEED VARIABLE SOURCES AND MODULATORS	George	N 36 09/07/92 \$2,162,429	JACOBS 92-NM-416	
Arizona State University				
CMU(5) INTEGRATED SENSOR, ACTUATOR & CONTROL SYSTEMS FOR PERFORMANCE ENHANCEMENT OF FLIGHT VEHICLES	Leonard	N 36 09/07/92 \$2,345,550	JACOBS 92-NM-417	
Virginia Polytechnic Inst & State Univ				
CMU(6) MICROELECTROMECHANICAL/OPTOELECTRONIC SPECTROMETER FOR CONTROL OF COMBUSTION PROCESSES IN ENGINES	T.	N 36 09/07/92 \$3,277,655	JACOBS 92-NM-418	
University of Illinois				
FEEDBACK CONTROL OF FLOW OVER HIGH-PERFORMANCE FLIGHT VEHICLES	N. Harris	N 36 09/07/92 \$2,837,452	JACOBS 92-NM-419	
Univ of Michigan				
CMU(7) CONTROL OF DYNAMIC AERODYNAMIC & STRUCTURAL SYSTEMS	Earl	N 36 09/07/92 \$3,646,588	JACOBS 92-NM-420	
Duke University				

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(MURD) NON-LOCAL CONTROL FOR OPTIMAL DESIGN AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS Air Force Polytechnic Inst & State Univ	Jurns	N 36 09/07/92 \$4,173,703	JACOBS 92-NM-421	
(MURD) RESEARCH ON MULTIPLE CONTROL AND MICROELECTROMECHANICAL SYSTEMS FOR HIGH-PERFORMANCE FLIGHT Univ of California, Berkeley	White	N 36 09/07/92 \$4,245,301	JACOBS 92-NM-422	
(MURD) DEVELOP A SYSTEM TO AUTOMATICALLY DESIGN INSTRUCTION SET ARCHITECTURE Univ of Southern California	Deshain	N 36 09/07/92 \$1,553,760	JACOBS 92-NM-423	
ADAPTIVE, NONLINEAR, AUTO-CONTROL IN SENSOR-ACTUATOR TECHNOLOGY FOR AERONAUTICAL AND SPACE SYSTEMS Univ of Missouri	Avula	N 36 09/07/92 \$471,304	JACOBS 92-NM-424	
(MURD) ROBUST CONTROL OF CONDUCTION & OTHER NONLINEAR SYSTEMS California Institute of Technology	Jayle	N 36 09/07/92 \$3,118,035	JACOBS 92-NM-425	
(MURD) CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS Washington University	Byrnes	N 36 10/07/92 \$4,296,974	JACOBS 92-NM-426	
(MURD) INTEGRATED MICROTRANSDUCER & NEURAL NETWORK SYSTEMS FOR DISTRIBUTED CONTROL Univ of California, Los Angeles	da	N 36 10/07/92 \$3,872,461	JACOBS 92-NM-427	
(MURD) ADVANCED SENSORS VIA HIGH PERFORMANCE MICRO ELECTRO MECHANICAL SYSTEMS (MEMS) TECHNOLOGY Univ of Wisconsin	Guckel	N 36 10/07/92 \$4,000,000	JACOBS 92-NM-429	
(MURD) NONLINEAR ADAPTIVE CONTROL UTILIZING OPTICAL AND MICRO SENSORS IN TUNNELING AND SEPARATED FLUIDS AT HIGH FREQUENCIES Illinois Institute of Technology	Hassan	N 36 10/07/92 \$2,300,000	JACOBS 92-NM-430	

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(MURI) ACTIVE CONTROL OF TURBULENT BOUNDARY LAYERS	Slawicki Johns Hopkins Univ of John	N 36 10/07/92 \$3,642,686	JACOBS 92-NM-431	
(MURI) INTELLIGENT DISTRIBUTED OPTOELECTRONIC SENSING AND PROCESSING FOR AIR FLOW CONTROL	Benner Univ of California San Diego	N 36 10/07/92 \$3,924,456	JACOBS 92-NM-432	
(MURI) MULTIDISCIPLINARY RESEARCH IN COUPLED FLUID/STRUCTURE/CONTROL INTERACTION	Pruefer Massachusetts Institute of Technology	N 36 10/07/92 \$4,035,102	JACOBS 92-NM-433	
(MURI) A WALKING POLYMER MICROBOT WITH OPTOELECTRONIC VISION	Salts Boston University	N 36 10/07/92 \$603,404	JACOBS 92-NM-434	
(MURI) IMPROVEMENT OF MODELS FOR ROBUST CONTROL DESIGN FOR NONLINEAR AEROSPACE	Skellam Cornell University	N 36 10/07/92 \$1,446,390	JACOBS 92-NM-436	
(MURI) ACTIVELY DEFORMABLE SURFACE WITH MICROHYDRAULIC ACTUATION	Wood Univ of Texas	N 36 10/07/92 \$2,359,104	JACOBS 92-NM-437	
(MURI) INTEGRATED CONTROL OF NONLINEAR DISTRIBUTED PARAMETER HYPERELASTIC SYSTEMS USING ADAPTIVE MATERIALS	deissner Air Force Research Foundation	N 36 10/07/92 \$2,391,073	JACOBS 92-NM-438	
(MURI) OPTO-ELECTRO-MECHANICAL DEVICES & SMART SKINS	Imagud Georgia Institute of Tech	N 36 13/07/92 \$2,345,178	JACOBS 92-NM-439	
(MURI) MICROSCALE FLUID-STRUCTURE INTERACTIONS	Pruefer Massachusetts Institute of Technology	N 36 13/07/92 \$2,646,541	JACOBS 92-NM-440	

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INFORMATION THEORETIC APPROACH TO DISTRIBUTED SENSING AND LEARNING California Institute of Technology	Goodman	N 36 13/07/92 \$147,637	A SUDDARTH 92-NM-441	\$146,899 30/09/92 \$147,637
THEORETICAL & EXPERIMENTAL STUDIES OF ADVANCED SENSING, ACTUATION, & CONTROL OF COMBUSTION PROCESSES Univ of Cincinnati	Walker	N 36 13/07/92 \$3,305,641	JACOBS 92-NM-442	
ADAPTIVE CONTROLLERS FOR NONLINEAR DISTRIBUTED PARAMETER SYSTEMS Univ of California, Irvine	Stubbard	N 36 13/07/92 \$1,850,280	JACOBS 92-NM-443	
INTERDISCIPLINARY APPROACH REDUCTION TECHNOLOGIES FOR HIGH-PERFORMANCE COMPUTING Univ of New Mexico	Aush	N 36 13/07/92 \$4,067,334	JACOBS 92-NM-444	
MODELLING & SHAPE CONTROL OF SMART STRUCTURES Brook University	Forouz	N 36 13/07/92 \$785,193	JACOBS 92-NM-445	
INTEGRATED SMART SKIN SYSTEM (ISS) FOR PANEL FLUTTER SUPPRESSION Old Dominion University	Huang	N 36 13/07/92 \$2,299,625	JACOBS 92-NM-446	
INTEGRATED SENSOR, ACTUATOR, AND CONTROL STUDIES FOR NONLINEAR DISTRIBUTED PARAMETER SYSTEMS York University	Joan	N 36 13/07/92 \$4,000,000	JACOBS 92-NM-447	
DEVELOPMENT OF A COMPLETE INTEGRATED MICROELECTROMECHANICAL FABRICATION TECHNOLOGY BASED ON FERROELECTRIC THIN FILMS Univ of Minnesota	Arthur	N 36 13/07/92 \$3,487,613	JACOBS 92-NM-448	
MODEL-BASED AUTOMATIC TARGET RECOGNITION Air Force Wright Laboratories	Vincent	N 12 13/07/92 \$125,000	A WAKSMAN 92-NM-449	

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GROUPED STRATEGIES, HICKSONSON'S, AND ALPHADACTURUS FOR BOUNDARY LAYER FEEDBACK CONTROL	UNIV OF PENNSYLVANIA	HAHM	N 36 14/07/92 \$399,839	JACOBS 92-NM-450	
CHURD LARGE, DISTRIBUTED CONTROL SYSTEMS USING OPTOELECTRONIC COMPUTING AND SENSING	UNIV OF COLORADO	HAFF	N 36 14/07/92 \$3,094,299	JACOBS 92-NM-451	
CHURD INTEGRATED FLIGHT CONTROL 2000	State University of New York	Tom	N 36 14/07/92 \$1,305,456	JACOBS 92-NM-452	
CHURD THE MODELING & CONTROL OF NONLINEAR DISTRIBUTED PARAMETER APPROPRIATED PLEX STRUCTURES/NO VARIABLES AND HYPERBOLIC JET ENGINES	UNIV OF CALIFORNIA, SAN DIEGO	Smith	N 36 14/07/92 \$3,619,301	JACOBS 92-NM-453	
CHURD BEATS EPICENTROSCOPIC SENSORS FOR COMBUSTION CONTROL	UNIV OF ILLINOIS	torke	N 36 14/07/92 \$2,696,583	JACOBS 92-NM-454	
CHURD A MULTI-DISCIPLINARY APPROACH TO ACTIVELY CONTROLLED HIGH-PERFORMANCE WINGS	UNIV OF WASHINGTON	Ly	N 36 13/07/92 \$2,160,120	JACOBS 92-NM-455	
STATISTICAL INTERFACE FOR CHAOTIC SIGNAL IN NOISE	UNIV OF RHODE ISLAND	Ray	N 24 16/07/92 \$91,085	A SJOGREN 92-NM-456	\$44,841 01/10/92 \$91,085
NONLINEAR METHODS FOR IMAGE AND SIGNAL PROCESSING	UNIV OF SOUTH CAROLINA	SeVore	N 36 16/07/92 \$132,338	SJOGREN 92-NM-457	
HIGH ORDER ACCURACY COMPUTATIONAL METHODS IN AERODYNAMICS USING PARALLEL ARCHITECTURES	UNIV OF CALIFORNIA	David	N 36 17/07/92 \$752,468	JACOBS 92-NM-458	

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LONG-RANGE OPTIMIZATION ALGORITHMS AND COSTABLE TABLE	Ellich	R 36 17/07/92 \$504,812	JACOBS 92-NM-459	\$102,956 01/10/92 \$102,956
Univ of California Berkeley	Ellich			
RELIABLE COMMUNICATION IN THE PRESENCE OF SEVERE NOISE OF	Robert	R 12 17/07/92 \$102,956	A GLASSMAN 92-NM-460	\$102,956 01/10/92 \$102,956
INTERFERENCE	Robert			
California Institute of Technology	Robert			
EXPLOITING SPECIAL STRUCTURE IN LARGE-SCALE USAP OPTIMIZATION	Gordon	N 12 20/07/92 \$99,440	A GLASSMAN 92-NM-461	\$99,400 01/10/92 \$99,400
MODELS	Gordon			
Naval Post Graduate School	Gordon			
KNOWLEDGE DISCOVERY IN LARGE DATA REPOSITORIES: ALGORITHMS AND	Steven	N 36 22/07/92 \$194,033	WAKSMAN 92-NM-462	\$59,933 01/11/92 \$189,019
EXPERIMENTS	Steven			
Johns Hopkins University	Steven			
SCALE-BASED TECHNIQUES IN SECURE & JAM-ASSISTANT COMMUNICATION	Douglas	N 36 22/07/92 \$189,019	A SJOGREN 92-NM-463	\$59,933 01/11/92 \$189,019
SYSTEMS	Douglas			
Arizona State University	Douglas			
2-LATTICE POLYMER	John	N 12 22/07/92 \$88,760	GLASSMAN 92-NM-464	\$200,000 30/09/92 \$627,000
Georgia Institute of Tech	John			
MULTIUNIT RELIABILITY SYSTEMS: OPTIMAL ALLOCATIONS OF RESOURCES,	Mohe	N 36 22/07/92 \$211,264	SJOGREN 92-NM-465	\$200,000 30/09/92 \$627,000
STOCHASTIC PROCESSES AND ASING	Mohe			
Univ of Arizona	Mohe			
COMPUTATIONAL METHOD FOR INFINITE DIMENSIONAL DYNAMICAL SYSTEMS	J	N 36 27/07/92 \$627,000	A JACOBS 92-NM-466	\$200,000 30/09/92 \$627,000
APPLICATIONS OF FLEXIBLE STRUCTURES AND INCOMPRESSIBLE FLUIDS	J			
Stanford University	J			
LECTURE SERIES & RESEARCH CONFERENCE ON GRAPHIC SURFACES	Edvard	N 12 29/07/92 \$32,431	GLASSMAN 92-NM-468	\$200,000 30/09/92 \$627,000
Johns Hopkins University	Edvard			

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WORKSHOP ON PERTURBATION METHODS IN PHYSICAL MATHEMATICS Consensuier Polytechnic Institute	Cole	N 12 30/07/92 \$29,673	NACHMAN 92-NM-469	
STABILITY, BIFURCATION, & CONTROL OF DYNAMICAL SYSTEMS Univ of California, Berkeley	Jarrola	N 24 30/07/92 \$90,000	NACHMAN 92-NM-470	
COMPUTATION AND THEORY IN NONLINEAR OPTIMIZATION Univ of Wisconsin	Robinson	R 24 30/07/92 \$119,340	A GLASSMAN 92-NM-471	\$57,397 15/11/92 \$119,340
THE NEXT GENERATION OF SECURITY OF MOBILE ROBOTS: PERSONNEL DETECTION TECHNIQUES & NAVIGATIONAL INTELLIGENCE Turbus Research Foundation	Ak	N 24 30/07/92 \$179,998	WAKSMAN 92-NM-472	
NONLINEAR PREDICTIVE CONTROLS WITH APPLICATION TO AIRCRAFT Louis State Univ of Science and Tech	Ping	N 24 30/07/92 \$71,137	JACOBS 92-NM-473	
STOCHASTIC SET PARTITIONING METHODS FOR OPERATIONAL PLANNING OF AIRCRAFT AND CRAFTS Princeton University	Powell	N 36 03/08/92 \$394,066	A GLASSMAN 92-NM-474	\$124,993 01/01/93 \$394,066
ADAPTIVE CONTINUATION ALGORITHMS WITH APPLICATION TO COMBUSTION PROBLEMS Fair University	Smooke	N 36 04/08/92 \$238,712	JACOBS 92-NM-475	
OPTIMIZATION OF LINEAR INTEGER PROGRAMS RELATED TO AIRLIFT OPERATIONS George Mason University	Hoffman	N 36 04/08/92 \$313,779	GLASSMAN 92-NM-476	
ASYNCHRONOUS ALGORITHMS: SCALABLE ALGORITHMS FOR MULTIPROCESSORS Univ of Southern California	Jubotz	N 36 05/08/92 \$335,122	JACOBS 92-NM-477	

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MATHEMATICAL FRONTIERS IN COMPUTATIONAL CHEMISTRY				
National Academy of Sciences	Scott	N 21 05/08/92 \$30,000	GLASSMAN 92-NM-478	
IFM COMPUTATION TECHNIQUES FOR SHAPE MODELING & DESIGN				
Univ of Kentucky	Cheng	N 36 05/08/92 \$350,423	GLASSMAN 92-NM-479	
ADVANCES IN SIGNAL PROCESSING THROUGH NOVEL TECHNIQUES IN FRACTAL/ WAVELET THEORY, CONVEX OPTIMIZATION, FRACIAL INVERSION AND ...				
Clark Atlanta University	Carlos	N 36 05/08/92 \$1,152,286	NACHMAN 92-NM-480	
DISCRETE OPTIMIZATION ALGORITHM FOR RESOURCE MANAGEMENT IN PARALLEL AND DISTRIBUTED SYSTEMS				
Univ of Massachusetts	Song	N 36 11/09/92 \$526,369	GLASSMAN 92-NM-481	
RETROSPECTIVE REASONING MODELS FOR MULTISTRATEGY CASE-BASED AND EXPLANATION-BASED LEARNING				
Georgia Institute of Tech	Shain	N 36 11/08/92 \$388,364	WAKSMAN 92-NM-492	
COMPUTATIONAL AND MATHEMATICAL INVESTIGATIONS IN OPTIMIZATION				
Cornell University	Robert	N 12 13/08/92 \$100,000	A GLASSMAN 92-NM-493	\$100,000 01/10/92 \$100,000
THE JOINT RECOGNITION OF 3D OBJECTS...				
Urbel University	Fernand	N 36 17/08/92 \$203,828	WAKSMAN 92-NM-484	
CONFERENCE ON MATHEMATICAL & NUMERICAL ASPECTS OF WAVE PROPAGATION				
Univ of Delaware	David	N 05 17/08/92 \$17,557	NACHMAN 92-NM-485	
TOPICS IN RELIABILITY AND SURVIVAL ANALYSIS				
Northern Illinois University	Nadar	N 36 17/08/92 \$121,374	SJOGREN 92-NM-486	

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AN EXTENSION OF THE CONTINUUM MODEL CASE ON GAS-KINETIC THEORY OF PARTIALLY HYPERSONIC-FLUID STUDY Univ of Southern California	Chen	24 17/08/92 \$253,696	JACOBSON 92-NM-487	
CATALYTICITY IN NEURAL NETWORK LEARNING & COMPUTATION Univ of North Texas	Parberry	36 21/08/92 \$71,569	SUDDARTH 92-NM-488	
MODELING, MESH GENERATION, & ADAPTIVE NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS Univ of Minnesota	Friedman	12 21/08/92 \$15,000	JACOBSON 92-NM-489	
VORTEX BREAKDOWN & HIGH ANGLES OF ATTACK AERODYNAMICS Pennsylvania Polytechnic Institute	Rusak	24 21/08/92 \$143,143	NACHMAN 92-NM-490	
ACCURATE ANALYSIS & COMPUTER AIDED DESIGN OF QUADRUPOLE-RIGGED FIBERGUIDES & FIBERS Arizona State University	Sun	24 25/08/92 \$120,427	NACHMAN 92-NM-491	\$142,145 01/01/93 \$427,349
COMMUNICATIONS THROUGH PLASMA SHEATHS: ALTERNATIVE APPROACHES USING NONLINEAR PROPERTIES OF THE PLASMA Univ of Arizona	Yewell	36 25/08/92 \$427,349	A NACHMAN 92-NM-492	
ESTIMATION & PREDICTION IN EMERGING DATA STRUCTURES Univ of California, Berkeley	Jedell	36 25/08/92 \$187,060	SJOGREN 92-NM-493	
PARAMETRIC INSTABILITIES IN MECHANICAL SYSTEMS Univ of California, Berkeley	Knobloch	36 31/08/92 \$556,147	NACHMAN 92-NM-494	
THE MATHEMATICAL STUDY OF NONLINEAR SYSTEMS & THEIR APPLICATIONS TO FERROMAGNETIC PHENOMENA Howard University	Gill	36 08/09/92 \$549,699	NACHMAN 92-NM-495	

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ADVANCED RESEARCH INSTITUTE IN ELECTRIC APPLIED MATHEMATICS					
Butters - The State University		Peter	N 36 08/09/92 \$120,990	GLASSMAN 92-NM-496	
SEMICONDUCTOR LASER DYNAMICS					
Univ of Arizona		J.	N 36 08/09/92 \$355,001	NACHMAN 92-NM-497	
MATHEMATICAL PROBLEMS IN COMBUSTION					
Univ of Illinois		John	N 36 08/09/92 \$261,356	A NACHMAN 92-NM-498	\$70,886 01/01/93 \$261,356
MULTIVARIATE ANALYSIS AND ITS APPLICATIONS					
Pennsylvania State University		C.	R 36 10/09/92 \$425,684	SJOGREN 92-NM-499	
TRANSMISSION DELAYS & CURSING STATISTICAL MECHANICAL NEURAL NETWORK MODELS					
Catholic University of America		Paul	N 12 15/09/92 \$29,000	NACHMAN 92-NM-500	
DIELECTRIC RESPONSE TENSOR & COLLECTIVE MODE BEHAVIOR IN STRONG ELECTROLYTE SOLUTIONS					
Univ of Vermont		Kenneth	N 12 15/09/92 \$97,000	NACHMAN 92-NM-501	
NEW PHYSICAL MODELS & METHODS FOR SOURCE LOCALIZATION					
Massachusetts Institute of Technology		Arve	N 36 15/09/92 \$370,361	SJOGREN 92-NM-502	
EFFICIENT ALGORITHMS AND DATA STRUCTURES IN GEOMETRIC DESIGN					
Purdue University		Chanderjit	R 36 16/09/92 \$209,925	GLASSMAN 92-NM-503	
JOURNAL DECOMPOSITION OF REAL-TIME MACHINE LEARNING ARCHITECTURE					
Princeton University		Allan	N 36 16/09/92 \$317,202	SUDDARTH 92-NM-504	

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RAY GENERATION SOLID MODELS FOR ELECTRONIC PROTOTYPING UNiv of Michigan	Butte	R 12 30/09/92 \$338,463	GLASSMAN 92-NM-514	

Deborah

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STATISTICAL TECHNIQUES FOR IDENTIFICATION & ROBUST CONTROL IN DISTRIBUTED PARAMETER SYSTEMS North Carolina State University	Ben Fitzpatrick	N 24 23/09/92 \$76,834	JACOBS 92-NM-505	
MANUFACTURING & OPTIMIZATION PROBLEMS OF ELECTROMAGNETIC DEVICES Clarkson University	Eytan Jafrouh	N 36 23/09/92 \$750,000	A NACHMAN 92-NM-506	\$250,000 30/11/92 \$750,000
SINGULAR PERTURBATION METHODS FOR NONLINEAR DYNAMICAL SYSTEMS Southern Methodist University	Richard Haberman	N 36 23/09/92 \$210,627	NACHMAN 92-NM-507	
THE ASYMPTOTIC THEORY OF THE REFLECTION & TRANSMISSION OF A PULSED ELECTROMAGNETIC BEAM FIELD AT A PLANAR INTERFACE SEPARAT. 2 DISP.. Univ of Vermont	Kurt Oughston	R 09 23/09/92 \$92,259	NACHMAN 92-NM-508	
DISTRIBUTED DETECTION THEORY & DATA FUSION Syracuse Univ - Dept Elec & Computer Eng	Pramod Varshney	N 12 23/09/92 \$61,670	SJOGREN 92-NM-509	
ULTRA-WIDEBAND ELECTROMAGNETICS Polytechnic University	Leopold Felson	N 36 24/09/92 \$411,748	A NACHMAN 92-NM-510	\$132,554 01/01/93 \$411,748
FORMAL METHODS FOR SOFTWARE DEVELOPMENT Iavai Post Graduate School	Ludj Sudartha	N 24 29/09/92 \$25,000	SUDDARTH 92-NM-511	
ALGORITHMIC APPROACHES TO NONLINEAR INTEGER PROGRAMMING State University of New York	Jadranka Skorin-Kapov	N 36 29/09/92 \$148,906	GLASSMAN 92-NM-512	
RAPID SOLUTIONS TO HARD PROBLEMS USING MESSY GENETIC ALGORITHMS Univ of Illinois	David Goldberg	N 36 29/09/92 \$269,882	GLASSMAN 92-NM-513	

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DEVELOP ALGORITHMS WHICH WILL BENEFIT PARALLEL COMPUTING EFFORTS Culham Laboratory	Eastwood	N 02 02/07/92 \$58,600	A 92-EX-012	\$57,416 01/07/92 \$58,600
SEISMIC STUDIES OF THE CASPIAN BASIN AND SURROUNDING REGIONS Cambridge University (Cavendish Lab)	Priestly	N 36 02/07/92 \$308,576	8 OWENS 92-EX-013	\$81,413 15/09/92 \$329,436
LIQUID KENON AS A POTENTIAL LASER HOST MEDIUM Univ of Southampton	Rutt	N 12 02/07/92 \$64,885	8 OWENS 92-EX-014	\$64,885 30/09/92 \$64,885
FIXED STRATEGIES IN THE PURSUIT OF BLIND HIGH-MANEUVRABILITY EVAD ERS Technion Resh & Development Foundation	Shinar	N 36 10/07/92 \$150,000	A OWENS 92-EX-015	\$50,000 30/09/92 \$150,000
CONTROL OF ROTOP VIBRATIONS USING HYBRID SQUEEZE FILM DAMPERS Cairo University	Shafel	N 36 21/07/92 \$119,996	OWENS 92-EX-016	\$19,998 30/09/92 \$119,996
LPA - VISITING PROFESSOR UNIVERSITY OF DAYTON, OHIO Univ of Dayton	Davidson	N 06 29/08/92 \$70,456	WIDALGO 92-EX-017	\$70,456 12/03/92 \$70,456