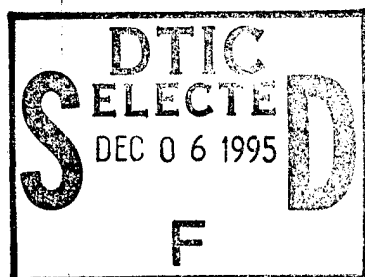


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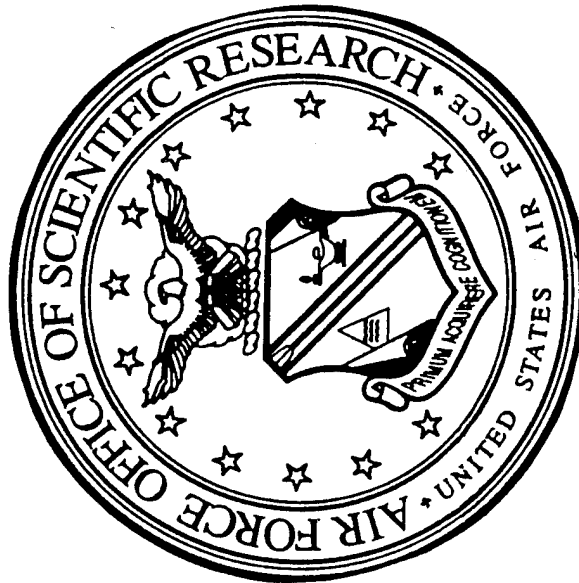
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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT



JULY - SEPTEMBER 1995

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

THIRD QUARTER 1995

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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report.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. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. The AFOSR is organized under the Director, Science and Technology, Air Force Materiel Command.

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

PART 1

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AT & T Bell Laboratories - GRP		Najorka	Peter	R	95-NM-372		GLASSMAN
Advanced Refractory Technologies Inc		Mroz	Thomas	J	95-NA-319	D	WARD
Advanced Technology Materials Inc.		Tischler	Michael		95-NE-307		PRAIRIE
Aero Soft Incorporated		Applebaum	Michael		95-NA-407		SAKELL
Air Force Office of Scientific Research					95-NF-320	A	WEINSTOCK
					95-XO-003	A	HUGHES
Air Materiel Command		Moore	Robert		95-NA-386	A	JONES
Arizona State University		Chattopadhyay	Aditi		95-NA-383		WU
		Krajcinovic	Dusan		95-NA-384		FELICE
		Saric	William	S	95-NA-370		MCMICHAEL
Armstrong Laboratory		Segall	Richard	S	95-NM-355		GLASSMAN
Arnold Engineering Development Center		Tennant	Scott		95-NA-335	A	SAKELL
Auburn University		Thakur	Mrinal		95-NL-235		LEE
Battelle Pacific Northwest Laboratories		Huesemann	Michael	H	95-NL-247		KOZUMBO
Boeing Co		Schmidt	Robert	M	95-NA-349		FELICE
Boston University		Speziale	Charles	G	95-NA-366		MCMICHAEL
Brown University		Gottlieb	David		95-NM-350		NACHMAN
		Sheldon	Brian	W	95-NA-436		PECHENIK
CHEMAT TECHNOLOGY INC		Chu	Cheng-Jye		95-NA-322	D	WARD
		Zheng	Haijing		95-NA-327	D	WARD
		Forward	Chris		95-NI-045	A	MCQUAY
CSIRO		Ahrens	Thomas	J	95-NA-346		FELICE
California Institute of Technology		Paton	Neil		95-NA-461		WARD
California Polytechnic State University		Mhaskar	H.	N	95-NM-318		NACHMAN
California State University		Goldhirsch	Isaac		95-NM-358		SCHRECK
Cambridge Hydrodynamics Incorporated		Luthy	Richard	G	95-NL-281		KOZUMBO
Carnegie-Mellon University		Lewandowski	John	J	95-NA-455		WARD
Case Western Reserve University		Zakharenkow	Michael	N	95-NA-331		MCMICHAEL
Central Aero-Hydrodynamic Institute		Lamoureux	Gene	H	95-NA-399		MCMICHAEL
Centric Engineering Systems Inc		Alfano	Robert	R	95-NE-306		SCHLOSSBER
City College - CUNY		Sadegh	Ali	M	95-NA-351		JONES
Clark Atlanta University		Williams	Michael	D	95-NE-332		PRAIRIE
Clarkson University		Kaup	David	J	95-NM-357		NACHMAN
Clemson University		Butler	Chalmers	M	95-NM-341	A	NACHMAN
College of William and Mary		Tracy	E.	R	95-NM-314		JACOBS
Colorado School of Mines		Eberhart	Mark		95-NA-451		WARD
Colorado State University		Dudek	F. Edward		95-NL-246		HADDAD
Columbia University		Kim	Won-Young		95-NM-374		DICKINSON
Cordec Corporation		Weimer	Raymond	J	95-NA-324	D	WARD
Cornell University		Ho	Wilson		95-NE-317		PRAIRIE
		Raj	Rishi		95-NA-445		WARD
Creare Inc. Research & Development Inc		Jasinski	Thomas	J	95-NE-310		PRAIRIE
Dalhousie University		Rusak	Benjamin		95-NL-277		HADDAD
Dartmouth College		Frost	Harold	J	95-NA-442		WARD
Delaware State College		Wheeler	Kraig	A	95-NL-253	D	LEE
Deposition Sciences, INC		Rogers	Donald	Z	95-NA-320	D	WARD
Dept of Energy - Chicago Oper Office		Washington	Edwina		95-NI-041	A	HUGHES
Duke University		Bejan	Adrian		95-NA-411		MCMICHAEL

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Florida Institute of Technology	Dowell	Earl		H	95-NA-424		WU
Florida International University	Thursby	Michael		H	95-NM-321		NACHMAN
Florida State University	Evangelist	Michael			95-NM-345		LUGINBUHL
	Chandra	Namas			95-NA-440		JONES
	Tam	Christopher			95-NA-371		MCMICHAEL
Fluid Dynamics International	Rosenblat	Simon			95-NA-397		MCMICHAEL
GT Equipment Tech Inc	Gupta	Kadar		P	95-NE-331		PRAIRIE
General Electric Co	Bowlay	Bernard		P	95-NA-446		WARD
Georgia Institute of Tech	Berdichevsky	V		V	95-NA-417		WU
	Johnson	William		S	95-NA-380		JONES
	Lackey	W. Jack			95-NA-439		PECHENIK
	Talreja	Ramesh			95-NA-435		JONES
	Glezer	Ari			95-NA-422		MCMICHAEL
Georgia Tech Research Corporation	Wang	Ning			95-NA-340	D	WARD
Global Associates Group Inc	Yamada	Norihide			95-NI-040	A	VAKURA
Hewlett-Packard Laboratories, Japan	Maxwell	Kenneth		J	95-NL-267		ROACH
Human Performance Measurement Inc	Perry	Anthony		J	95-NA-321	D	WARD
ISM Technologies, Inc	Naidu	D. Subbaram			95-NM-335	D	JACOBS
Idaho State University	Mandal	Braja		K	95-NL-273		LEE
Illinois Institute of Technology	Nagib	Hassan		M	95-NA-369		MCMICHAEL
Immersion Human Interface	Rosenberg	Louis		B	95-NL-266		ROACH
Indian Institute of Science	Chokshi	Atul		H	95-NI-042	A	MCQUAY
	Narayan	K.		S	95-NI-044	A	MCQUAY
	Wang	Qi			95-NM-360		NACHMAN
Indiana University-Purdue Univ at Indpls	Witzmann	Frank		A	95-NL-249		KOZUMBO
Institute for Defense Analyses	Levin	Deborah		A	95-NA-416		BIRKAN
Intermat	Schmidt	Walter			95-NA-325	D	WARD
International Computer Science Institute	Greenberg	Steven		R	95-NL-251		TANGNEY
Iowa State Univ of Science and Tech	Mayretski	Alexandre			95-NM-320		JACOBS
Iowa State University	Chimanti	Dale		E	95-NA-429		JONES
	Gunzburger	Max		D	95-NM-364		SCHRECK
	Russell	Alan			95-NA-389		WARD
Johns Hopkins University	Kaplan	Alexander		E	95-NE-314		SCHLOSSBER
	Kasif	Simon			95-NM-352		WAKSMAN
	Knio	Omar		M	95-NA-376		MCMICHAEL
	Prosperetti	A			95-NA-403		MCMICHAEL
	Welths	Timothy		P	95-NA-449		WARD
Kaup Inc	Kaup	D. J.			95-NM-359	A	NACHMAN
LaJolla Cancer Research Foundation	Rampino	Nicholas		J	95-NL-284		KOZUMBO
Lawrence Berkeley Laboratory	Head-Gordon	Teresa		L	95-NL-274		BERMAN
	Lilliental-Weber	Z.			95-NE-316		WITT
Lehigh University	Walker	J		D	95-NA-405		MCMICHAEL
					95-NA-414		SANDERS
					95-NA-426		WU
Massachusetts General Hospital	Lin	Charles		P	95-NL-244		KOZUMBO
Massachusetts Institute of Technology	Breuer	Kenneth		S	95-NA-372		MCMICHAEL
	Chang	Tom			95-NM-354		KROLL
	Crawley	Edward			95-NA-417		WU

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INSTITUTION

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Materials Business Consultants Internati Materials Modification, INC Materials Research Society	Epstein	Alan		H	95-NA-374		MCMICHAEL
	Gretzler	Edward		M	95-NA-375		MCMICHAEL
	Oppenheim	Alan	V		95-NM-349		SJOGREN
	Spearing	S	M		95-NA-381		JONES
Michigan State University	Shroff	Gerry		J	95-NA-341	D	WARD
	Stiglich	Jacob		H	95-NA-323	D	WARD
	Pachavis	Robert			95-NE-311		PRAIRIE
					95-NL-238		LEE
Michigan State University	Wnek	Gary		E	95-NL-282		LEE
	Trosko	James	E		95-NL-271		KOZUMBO
	Pandey	Ravi			95-NA-437		PECHENIK
	Goplen	Bruce			95-NE-325		BARKER
Monopole Research	Bleszynski	Elizabeth		N	95-NM-323		NACHMAN
	Mansour	Nagi			95-NA-364		MCMICHAEL
	Nixon	David			95-NA-408		TISHKOFF
	Nixonn	David			95-NA-410		SAKELL
National Center for Atmospheric Research	Zou	XiaoLei			95-NM-373		KROLL
					95-NL-255	A	DICKINSON
	Bradley	Gordon	H		95-NM-336		GLASSMAN
	Gray	Grant	R		95-NM-338		KROLL
New Mexico Institute of Mining and Tech North Carolina State University	Edwards	Jack	R		95-NA-361		TISHKOFF
	Mayo	R	M		95-NA-333		BIRKAN
	Osteryoung	Robert	A		95-NL-279		DE LONG
	Gillispie	Gregory	D		95-NE-338		SCHLOSSBER
North Dakota State University	Dunkerton	Timothy	J		95-NM-315	D	KROLL
	Athenbach	Jan	D		95-NA-430		JONES
	Bazant	Zdenek	P		95-NA-344		FELICE
	Kam Liu	Wing			95-NA-427		WU
Northwest Research Associates, Inc. Northwestern University	Shah	Surendra	P		95-NA-345		FELICE
	Vo-Dinh	Tuan			95-NE-315	A	CRAIG
	Anderson	Peter	M		95-NA-390		WARD
	Doss	Hani			95-NM-368		SJOGREN
Oak Ridge National Lab Ohio State Univ Research Foundation	Forest	M. Gregory			95-NM-356		NACHMAN
	Ozguner	Umit			95-NA-391		SANDERS
					95-NA-425		WU
	Epstein	Arthur	J		95-NL-234	D	LEE
Ohio State University	Li	Wu			95-NM-369		SJOGREN
	Burton	Robert	M		95-NM-365		SJOGREN
	Wabb	Homar	L		95-NL-269		ROACH
	Grutzeck	Michael	M		95-NA-352		JONES
Pennsylvania State University	Koss	Donald	A		95-NA-456		WARD
	Werner	Douglas	H		95-NM-313		NACHMAN
	Jewell	Jack	L		95-NE-318		CRAIG
	Huang	Tian-Sen	G		95-NM-376		RADOSKI
Picolight Incorporated Prairie View A&M University Princeton University	Debenedetti	Pablo	R		95-NA-359		TISHKOFF
	Forrest	Steven	R		95-NE-313		CRAIG
	Torquato	Salvatore			95-NA-419		WU
	Lackritz	Hilary					
Purdue Research Foundation							

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Purdue University	Plesniak	M		W	95-NA-409		MCMICHAEL
	Sun	C		T	95-NA-396		SANDERS
	Lackritz	Hilary	S		95-NL-261		LEE
					95-NL-283		LEE
Quest Integrated, Inc	Savrun	Ender			95-NL-258	A	HEDBERG
	Brandenburg	John	E		95-NE-321		BARKER
	Dorkin	Jack			95-NA-329		LEWIS
	Rockwell International, Science Center	Benard	David	J	95-NL-280		BERMAN
Rutgers - The State University	Cheng	J. John			95-NM-362		JACOBS
	Koeler	Eileen			95-NL-254		ROACH
	Kirkpatrick	Steven	W		95-NA-363		JONES
	Sam Technology, Inc.	Alan			95-NL-262		TANGNEY
Scientific Research Associates, Inc.	Mayyappan	M			95-NA-398		MCMICHAEL
	Kaikhah	Khosrow			95-NM-366	D	WAKSMAN
	Graves	Charles	E		95-NM-334	A	KROLL
	St. Louis University	Cantwell	Brian	J	95-NA-334		BIRKAN
Stanford University	Lele	Sanjiva	K		95-NA-373		MCMICHAEL
					95-NA-428		TISHKOFF
		Parviz			95-NA-342		SAKELL
		Stephen	W		95-NA-421		WU
State University of New York	Chiang	Fu-pen			95-NA-395		SANDERS
	Prasad	Paras	N		95-NL-239		LEE
	Cole	Eric	D		95-NL-259		HEDBERG
	Symplectic Engineering Corporation	Weissman	Shmuel	L	95-NA-460		JONES
Syracuse University	Varshney	Pramod	K		95-NM-324		SJOGREN
	Patel	Vinod			95-NA-339	D	WARD
	Shahane	Shyam	D		95-NA-326	D	WARD
	Texas A and M University	Kirk	Wiley	P	95-NE-309		CRAIG
Texas Engineering Experiment Station	Junkins	John	L		95-NA-423		WU
	Kuchinski	Frank			95-NA-338	D	WARD
	Kachanov	Mark			95-NA-347		FELICE
	Tufts University	Giamel	Anthony	F	95-NA-444		WARD
United Technologies Research Center	Harris	David	T		95-NL-230		KOZUMBO
	Peyghambarian	N			95-NL-237		LEE
	Wygnanski	Israel	J		95-NA-368		MCMICHAEL
	Univ of California, Berkeley	Franklach	Michael		95-NA-387		TISHKOFF
Univ of California, Davis	Ritchie	R.	O		95-NA-454		WARD
	Aldredge	Ralph	C		95-NA-360		TISHKOFF
	Pazzani	Michael			95-NM-331		WAKSMAN
	Univ of California, Irvine	Sirignano	William	A	95-NA-355		TISHKOFF
Univ of California, Los Angeles	Anderson	Christopher	R		95-NM-340		SCHRECK
	Ardell	Alan	J		95-NA-459		PECHENIK
	Bendiksen	Oddsvaer	O		95-NA-393		SANDERS
	Carter	Emily	A		95-NL-264		BERMAN
Univ of California, Riverside	Cotton	Ivan			95-NA-404		MCMICHAEL
	Fetterman	Harold			95-NE-304		SCHLOSSBER
	Friedmann	Peretz	P		95-NA-392		SANDERS
	Rahman	Hafiz-ur					

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

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of California, San Diego	Continetti	Robert		E	95-NL-240		BERMAN
	Dynes	R.		C	95-NE-308	A	WEINSTOCK
	Esener	Sadik			95-NE-328		CRAIG
Univ of California, San Francisco	Nemat-Nasser	Siavouche			95-NA-348		FELICE
	Ademola	John			95-NL-248		KOZUMBO
	Coldren	Larry		A	95-NE-302		CRAIG
Univ of California, Santa Barbara	Heeyer	Alan		J	95-NL-231		LEE
	Lange	Fred		F	95-NA-385	A	PECHENIK
	Lucas	G.		E	95-NA-448		WARD
Univ of Cincinnati	Mark	James		E	95-NL-236		LEE
	Hauser	John		E	95-NM-347		JACOBS
	Rogers	Wayne		P	95-NA-432		JONES
Univ of Colorado	Salby	Murry		L	95-NM-370		KROLL
	Weigend	Andreas			95-NM-375		SJOGREN
	William	Kaspar		J	95-NA-400		SANDERS
Univ of Connecticut	Padture	Nitin		P	95-NA-438		PECHENIK
	Shaw	Leon		L	95-NA-353		JONES
	Bajpai	Praphulla		K	95-NL-263	D	HADDAD
Univ of Dayton	Eylon	Daniel			95-NA-458		WARD
	Goldshlik	Mikhail			95-NA-332		MCMICHAEL
	Hussain	Fazle			95-NA-359		TISHKOFF
Univ of Houston	Johnsson	S. Lennart			95-NM-323		SCHRECK
	Metcalfe	Ralph		W	95-NA-357		TISHKOFF
	White	Kenneth		W	95-NA-378		JONES
Univ of Illinois	Namachchivaya	N		S	95-NA-420		WU
	Vanka	S		P	95-NA-413		MCMICHAEL
	Tucker	Donna			95-NM-367		KROLL
Univ of Kansas, Center for Research	Wu	Judy		Z	95-NE-337		WEINSTOCK
	Ankem	Sreeramamurthy			95-NA-452		WARD
	Arsenault	Richard		J	95-NA-394		SANDERS
Univ of Maryland	Dagenais	Mario			95-NE-299	A	CRAIG
	Gannon	John		D	95-NM-312		LUGINBUHL
	Rosenfeld	Azriel			95-NM-337		WAKSMAN
Univ of Maryland, Baltimore County	Tassiulas	Leandros			95-NM-316	A	SJOGREN
	Hayden	L. Michael		E	95-NL-252		LEE
	Karasz	Frank			95-NL-276		LEE
Univ of Massachusetts	Brent	Ronald			95-NM-330		NACHMAN
	Duenyas	Izak			95-NM-325		GLASSMAN
	Gombosi	Tamas			95-NM-329	A	SCHRECK
Univ of Massachusetts at Lowell	Kota	Sridhar			95-NA-418		WU
	Singh	Jasprit			95-NE-300		CRAIG
	Steel	Duncan		G	95-NE-295		SCHLOSSBER
Univ of Michigan	Tryggvason	Gretar			95-NA-354		TISHKOFF
	Was	Gary		S	95-NA-453		WARD
	Ackerman	Phillip		L	95-NL-278		TANGNEY
Univ of Minnesota	Bates	Frank		S	95-NL-232		LEE
	Friedman	Avner			95-NM-317		NACHMAN
	Goldstrin	R. J			95-NA-377		NACHMAN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Missouri		Gopinath	Anand		95-NE-334		CRAIG
		Teel	Andrew	R	95-NM-346		JACOBS
		Dharani	Lokeswarappa	R	95-NA-433		JONES
		Alexander	Dennis	R	95-NE-312		SCHLOSSBER
Univ of Nebraska		Bahar	Ezekiel	G	95-NM-322		NACHMAN
		Snyder	Paul	R	95-NE-339		PRAIRIE
Univ of New Mexico		Brueck	Steven	R	95-NE-301		SCHLOSSBER
		Chen	Zhen		95-NA-343		FELICE
		Malloy	Kevin	J	95-NE-327		CRAIG
		Paxton	Alan	H	95-NI-039	A	HART
Univ of North Carolina		Miller	Roger		95-NL-243		BERMAN
		Jumper	Eric	J	95-NA-401		MCMICHAEL
		Mossberg	Thomas	W	95-NE-322		CRAIG
		Wang	Hailin		95-NE-298		CRAIG
Univ of Pennsylvania		Aravas	Nikolaos		95-NE-323		CRAIG
		Laird	Campbell		95-NA-350		JONES
		Voth	Gregory	A	95-NA-457		WARD
		Chiarulli	Donald	Y	95-NL-242		BERMAN
Univ of Pittsburgh		Moore	Robert		95-NE-326		CRAIG
		Pollack	Martha		95-NL-265		HADDAD
		VanLehn	Kurt	M	95-NM-327		WAKSMAN
		Salzberg	Pablo	C	95-NM-353		WAKSMAN
Univ of Puerto Rico, Rio Piedras		Kumaresan	Ramdas		95-NE-336		PRAIRIE
		Yang	Sze		95-NM-363		SJOGREN
		Wicks	Gary	W	95-NL-233		LEE
		Wolf	Emil		95-NE-297		WITT
Univ of South Florida		Djeu	Nicholas	B	95-NM-333		NACHMAN
		Danzig	Peter		95-NE-319		SCHLOSSBER
		Levy	Anthony		95-NM-319		LUGINBUHL
		Ianelli	Joe	S	95-NE-329		CRAIG
Univ of Tennessee		Madhukar	Madhu		95-NM-361		SCHRECK
		Yu	N. Allen		95-NL-250		LEE
		Roy	Sumit	G	95-NA-434		JONES
		Bogard	David		95-NM-342		SJOGREN
Univ of Texas at Austin		Varghese	Pillip	L	95-NA-415		MCMICHAEL
		Anderson	Scott		95-NA-356		TISHKOFF
		Hoepfner	David	W	95-NL-241		BERMAN
		Mattis	Daniel	C	95-NA-379		JONES
Univ of Utah		Simons	Jack		95-NE-330	D	WEINSTOCK
		Wight	Charles	A	95-NL-245		BERMAN
		Clougherty	Dennis	P	95-NL-269	A	BERMAN
		Grace	Michael		95-NE-335		KELLEY
Univ of Vermont		Herakovich	Carl	T	95-NL-260		HEDBERG
		Jones	Robert	R	95-NA-431		JONES
		Nandhakumar	Nagaraj		95-NE-324		KELLEY
		Noor	Ahmed	K	95-NM-326		WAKSMAN
Univ of Virginia		Taylor	S. Ray		95-NA-388		WU
					95-NL-379		

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Washington	Kosaly	George			95-NA-362		TISHKOFF
	Kurosaka	M			95-NA-377		MCMICHAEL
	Sahr	John	D		95-NM-348		KROLL
	Perepezko	John	H		95-NA-406		WARD
Univ of Wisconsin					95-NA-441		WARD
	Slemrod	Marshall	M		95-NM-371		NACHMAN
	Thole	Karen	A		95-NA-365		MCMICHAEL
	Mishra	Shivakant			95-NM-332		LUGINBUHL
Univ of Wyoming	Kirstein	Peter	T		95-NI-043	A	ZARBO
	Highsmith	Alton	L		95-NA-382		JONES
	Marcovitch	Jack			95-NA-337	D	WARD
	Chisholm-Brause	Catherine			95-NA-328	A	WU
Virginia Institute of Marine Science	Reynolds	William	T		95-NA-450		WARD
	Kuzyk	Mark	G		95-NL-272		LEE
	L. Sastry	Shankar	M		95-NA-443		WARD
	Rodin	Ervin	Y		95-NM-339		GLASSMAN
Washington State University	Kim	Myung	K		95-NE-294		CRAIG
	Morgan	Caroline	G		95-NE-296		WITT
	Sutyrin	Vladislav			95-NM-351		NACHMAN
	Zhao	Yang			95-NE-333		CRAIG
Wayne State University	Halliburton	Larry	E		95-NE-340		SCHLOSSBER
	Sission	Richard	D		95-NA-447		WARD
	Olson	Karen			95-NA-330	A	JONES
	Teng	M.	H		95-NL-257		HEDBERG
West Virginia University Research Corp	Shaw	Arnab	K		95-NM-344		SJOGREN
	Sreenivasan	Katepalli	R		95-NA-402		MCMICHAEL
	van den pol	Anthony	N		95-NL-275		HADDAD
	S. Revankar	Vithal	V		95-NA-336	D	WARD
Worcester Polytechnic Institute							
Wright Lab							
Wright Materials Research							
Wright State University							
Yale University							
Yale University School of Medicine							
Zooat Environmental							

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR-95)NON-OXIDE TITANIUM COMPOUND COATING METHOD FOR CONTINUOUS FIBERS Advanced Refractory Technologies Inc	Mroz	N 06 03/07/95 \$79,937	D WARD 95-NA-319	
(SBIR-95) DEVELOPMENT OF IMPROVED INTERFACIAL COATINGS FOR CERAMIC FIBERS BY PLASMA CHEMICAL VAPOR DEPOSITION Deposition Sciences, INC	Rogers	N 06 03/07/95 \$78,781	D WARD 95-NA-320	
(SBIR-95) ADVANCED COMPOSITE REINFORCING FIBER INTERFACIAL COATING PROCESS ISM Technologies, Inc	Perry	N 06 03/07/95 \$79,819	D WARD 95-NA-321	
MICROWAVE CHEMICAL CONVERSION PROCESS OF TIC/VC CERAMIC FIBERS CHEMAT TECHNOLOGY INC	Chu	N 06 03/07/95 \$80,000	D WARD 95-NA-322	
(SBIR-95) COATINGS FOR CERAMIC FIBERS Materials Modification, INC	Stiglich	N 06 03/07/95 \$80,000	D WARD 95-NA-323	
(SBIR-95) PRECISION SENSOR AND CONTROLLER FOR IMPROVING COATING QUALITY IN MULTIFILAMENT CERAMIC FIBER TOWS Cordec Corporation	Weimer	N 06 03/07/95 \$79,446	D WARD 95-NA-324	
(SBIR-95) *GROWTH OF LONG YAG WHISKER FOR COMPOSITE REINFORCEMENT Intermat	Schmidt	N 06 03/07/95 \$59,707	D WARD 95-NA-325	
(SBIR-95) HIGH TEMPERATURE CERAMIC FIBERS Technochem Company	Shahane	N 06 03/07/95 \$80,000	D WARD 95-NA-326	
(SBIR-95) LOW COST, CONTINUOUS YTTRIUM-ALUMINUM GARNET MICROCOMPOSITE FIBERS VIA THE SOL-GEL METHOD CHEMAT TECHNOLOGY INC	Zheng	N 06 03/07/95 \$80,000	D WARD 95-NA-327	

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CHARACTERIZATION OF THE MINERALS AND IRON-CONTAINING PHASES OF THE AQUIFER MATERIAL AT COLUMBUS AIR FORCE BASE Virginia Institute of Marine Science	Chisholm-Brause Catherine	N 24 03/07/95 \$54,306	A NU 95-NA-328	\$54,306 15/11/95 \$54,306
SEISMIC DETECTION OF VISCOUS CONTAMINANTS Rock Physics Associates	Dvorkin Jack	N 36 10/07/95 \$327,338	LEWIS 95-NA-329	
AFOSR/WL AGING AIRCRAFT CONFERENCE Wright Lab	Olson Karen	N 02 11/07/95 \$15,000	A JONES 95-NA-330	\$15,000 07/07/95 \$15,000
EFFECTIVE COMPUTATIONAL ALGORITHM FOR THREE-DIMENSIONAL VISCOUS INCOMPRESSIBLE FLOW Central Aero-Hydrodynamic Institute	Zakharov Mickael	N 06 13/07/95 \$30,146	MCMICHAEL 95-NA-331	
INNOVATIVE VORTEX MACHINES FOR TECHNOLOGICAL APPLICATIONS Univ of Houston	Goldshtik Mikhail	N 48 13/07/95 \$685,201	MCMICHAEL 95-NA-332	
HIGH EFFICIENCY & HIGH SPECIFIC IMPULSE ELECTRIC PROPULSION FOR SATELLITE ORBIT TRANSFER, STATION KEEPING, & ATTITUDE ADJUSTMENT North Carolina State University	Mayo R	N 36 17/07/95 \$555,439	BIRKAN 95-NA-333	
TRANSIENT BEHAVIOR IN HYBRID ROCKET COMBUSTION Stanford University	Centwell Brian	N 36 17/07/95 \$413,576	BIRKAN 95-NA-334	
RIPPLE LAUNCH COMPUTATIONAL CAPABILITY (1951) Arnold Engineering Development Center	Tennant Scott	N 12 18/07/95 \$293,879	A SAKELL 95-NA-335	\$299,879 01/10/95 \$299,879
(SBIR-95) TITANIUM DIBORIDE FIBER SYNTHESIS AND DEVELOPMENT. Zoocat Environmental	S. Revankar Vithal	N 06 19/07/95 \$80,000	D WARD 95-NA-336	

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(SBIR-95) COMPOSITE REINFORCING FIBER AND INTERFACIAL COATING PROCESSES Valucci Concepts	Marcovitch Jack	N 06 19/07/95 \$80,000	D WARD 95-NA-337	
(SBIR-95) NOVEL APPROACH FOR COATING CERAMIC FIBERS OR US AS CONTINUOUS REINFORCEMENT OF TITANIUM ALUMINIDE INTERMETALLIC Triton Systems Inc	Kuchinski Frank	N 06 19/07/95 \$79,885	D WARD 95-NA-338	
(SBIR-95) COMPOSITE REINFORCING FIBER & INTERFACIAL COATING PROCESSES Techmetals Inc	Patel Vinod	N 06 19/07/95 \$121,237	D WARD 95-NA-339	
(SBIR-95) NITRIDE COATINGS ON CARBON AND SIC FIBERS FOR MMC'S AND CMC'S Global Associates Group Inc	Wang Ning	N 06 19/07/95 \$79,971	D WARD 95-NA-340	
(SBIR-95) COMPOSITE REINFORCING FIBER AND INTERFACIAL COATING PROCESSES Materials Business Consultants Internati	Shroff Gerry	N 06 19/07/95 \$79,400	D WARD 95-NA-341	
LARGE EDDY SIMULATION OF TURBULENT FLOW OVER AN AIRFOIL USING BOTH STRUCTURED AND UNSTRUCTURED GRIDS Stanford University	Moyn Parviz	N 36 21/07/95 \$444,670	SAKELL 95-NA-342	
AN ANALYTICAL AND NUMERICAL INVESTIGATION ON FAILURE WAVES IN GEOLOGIC MATERIALS Univ of New Mexico	Chen Zhen	N 36 25/07/95 \$377,629	FELICE 95-NA-343	
MODELING OF FUNDAMENTAL MESOCRAACK DAMAGE PROCESSES IN SHOCK WAVES IN CONCRETE AND ROCK Northwestern University	Bazant Zdenek	N 36 25/07/95 \$281,428	FELICE 95-NA-344	
STUDIES OF FRACTURE PROCESSES IN CEMENT-BASED MATERIALS UNDER COMPRESSION WITH MICROTOMOGRAPHY AND COMPUTER VISION Northwestern University	Shah Surendra	N 36 25/07/95 \$367,339	FELICE 95-NA-345	

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SHOCK-INDUCED DAMAGE IN ROCK AND CONCRETE California Institute of Technology	Ahrens Thomas	N 36 25/07/95 \$416,157	FELICE 95-NA-346	
DYNAMIC RESPONSE OF MATERIALS WITH CRACKS & PORES OF VARIOUS SHAPES: WAVESPEEDS, MICROFRACTURING PATTERNS & PROPER INTERPRETA Tufts University	Kachanov Mark	N 36 25/07/95 \$216,622	FELICE 95-NA-347	
DYNAMIC RESPONSE, RESIDUAL STRENGTH, AND HIGH STRAIN-RATE FAILURE MODES OF ROCK AND CONCRETE Univ of California, San Diego	Nemat-Nasser Siavouche	N 36 25/07/95 \$380,000	FELICE 95-NA-348	
DYNAMIC BEHAVIOR OF SELECTED MATERIALS AT HIGH STRAIN RATES Boeing Co	Schmidt Robert	N 36 25/07/95 \$450,000	FELICE 95-NA-349	
ANISOTROPIC DAMAGE EVOLUTION AND LOCALIZATION IN NONLINEAR STRUCTURAL MATERIALS Univ of Pennsylvania	Aravas Nikolaos	N 36 26/07/95 \$396,697	JONES 95-NA-350	
AN EXPERT SYSTEM FOR ASSESSMENT OF DEFECTS IN AEROSPACE STRUCTURES City College - CUNY	Sadegh Ali	N 24 26/07/95 \$274,532	JONES 95-NA-351	
PROPERTIES OF ZEOLITE-REINFORCED CONSTRUCTION MATERIALS Pennsylvania State University	Grutzeck Michael	N 36 26/07/95 \$206,180	JONES 95-NA-352	
FRACTURE RESISTANCE AND MECHANISMS OF CERAMIC/METAL FUNCTIONALLY GRADED MATERIALS Univ of Connecticut	Shaw Leon	N 36 26/07/95 \$261,943	JONES 95-NA-353	
COMPUTATIONAL INVESTIGATIONS OF ATOMIZATION Univ of Michigan	Tryggvason Gretar	N 36 26/07/95 \$257,061	TISHKOFF 95-NA-354	

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1 DROPLET-TURBULENCE INTERACTIONS OVER A WIDE SPECTRAL RANGE Univ of California, Irvine	William Sirignano	N 36 26/07/95 \$377,587	TISHKOFF 95-NA-355	
2 A HIGH SPEED RAMAN TECHNIQUE FOR TURBULENT FLAME DIAGNOSTICS Univ of Texas at Austin	Phillip Varghese	N 36 26/07/95 \$285,809	TISHKOFF 95-NA-356	
3 THE EFFECTS OF COHERENT STRUCTURES ON TURBULENT MIXING AND COMBUSTION Univ of Houston	Ralph Metcalfe	N 36 26/07/95 \$346,745	TISHKOFF 95-NA-357	
4 THEORETICAL AND COMPUTATIONAL STUDIES OF NUCLEATION IN SUPERCritical FUELS Princeton University	Pablo Debenedetti	N 36 26/07/95 \$319,325	TISHKOFF 95-NA-358	
5 DEVELOPMENT OF ADVANCED DIAGNOSTICS FOR COMPLEX FLOWS, TWO-PHASE FLOWS, COMBUSTION, AND MEDICAL TECHNOLOGY Univ of Houston	Fazle Hussain	N 36 26/07/95 \$545,265	TISHKOFF 95-NA-359	
6 FUNDAMENTAL STUDIES OF TURBULENT FLAME PROPAGATION Univ of California, Davis	Ralph Aldredge	N 36 26/07/95 \$324,875	TISHKOFF 95-NA-360	
7 "NUMERICAL INVESTIGATION OF CONDITIONAL MOMENT CLOSURE FOR HIGH-SPEED HYDROGEN-AIR COMBUSTION" North Carolina State University	Jack Edwards	N 36 26/07/95 \$140,392	TISHKOFF 95-NA-361	
8 EVALUATION OF CLOSURE MODELS FOR TURBULENT DIFFUSION FLAMES Univ of Washington	George Kosaly	N 36 26/07/95 \$226,043	TISHKOFF 95-NA-362	
9 "FAILURE BEHAVIOR OF BRITTLE MATRIX COMPOSITES UNDER COMBINED LOADINGS" SRI International	Steven Kirkpatrick	N 36 26/07/95 \$299,910	JONES 95-NA-363	

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NUMERICAL TOOLS FOR THE SIMULATION OF FLOWS IN MICRO-DEVICES				
NASA - Ames Research Center	Mansour	N 36 27/07/95 \$450,000	MCMICHAEL 95-NA-364	
HIGH FREESTREAM TURBULENCE EFFECTS ON BOUNDARY LAYER STRUCTURES				
Univ of Wisconsin	Thole	N 36 27/07/95 \$299,380	MCMICHAEL 95-NA-365	
PREDICTING THE EFFECTS OF FREE-STREAM TURBULENCE AND HEAT TRANSFER IN TURBULENT BOUNDARY LAYERS				
Boston University	Speziale	N 24 27/07/95 \$201,477	MCMICHAEL 95-NA-366	
EXPERIMENTAL AND COMPUTATIONAL STUDIES OF HEAT TRANSFER AND FLOW PHENOMENA IN AIRCRAFT GAS TURBINE ENGINES				
Univ of Minnesota	Goldstrin	N 36 27/07/95 \$690,270	MCMICHAEL 95-NA-367	
THE FORCED TURBULENT WALL JET AND WALL WAKE				
Univ of Arizona	Wynanski	N 36 27/07/95 \$586,349	MCMICHAEL 95-NA-368	
ACTIVE CONTROL & MODELING OF THREE-DIMENSIONAL & NON-EQUILIBRIUM EXTERNAL AND TURBOMACHINERY FLOWS SIMULATED IN THE NDF				
Illinois Institute of Technology	Nagib	N 36 27/07/95 \$1,638,521	MCMICHAEL 95-NA-369	
INFLUENCE OF HIGH-AMPLITUDE NOISE ON BOUNDARY-LAYER TRANSITION TO TURBULENCE				
Arizona State University	Seric	N 24 27/07/95 \$279,977	MCMICHAEL 95-NA-370	
NUMERICAL SIMULATION OF SCREECH TONES: PHYSICS AND PREDICTION				
Florida State University	Tam	N 36 27/07/95 \$307,273	MCMICHAEL 95-NA-371	
MICRO HEAT EXCHANGERS				
Massachusetts Institute of Technology	Breuer	N 36 27/07/95 \$507,847	MCMICHAEL 95-NA-372	

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LARGE EDDY SIMULATION FOR HEAT TRANSFER PREDICTION UNDER FREE- STREAM TURBULENCE Stanford University	Lele Sanjiva	N 36 27/07/95 \$404,799	MCNICHAE 95-NA-373	
ACTIVE CONTROL OF AEROELASTICITY AND INTERNAL FLOWS IN TURBOMACHINERY Massachusetts Institute of Technology	Epstein Alan	N 36 27/07/95 \$616,342	MCNICHAE 95-NA-374	
UNSTEADY AND THREE-DIMENSIONAL FLOW IN TURBOMACHINES Massachusetts Institute of Technology	Greitzer Edward	N 36 27/07/95 \$734,420	MCNICHAE 95-NA-375	
HYBRID LAGRANGIAN-EULERIAN LARGE-EDDY-SIMULATION OF COMPLEX FLOWS Johns Hopkins University	Knio Omar	N 36 27/07/95 \$358,166	MCNICHAE 95-NA-376	
VORTEX CONTROL TO ENHANCE FILM COOLING Univ of Washington	Kurosaka M	N 36 27/07/95 \$250,000	MCNICHAE 95-NA-377	
ELEVATED TEMPERATURE PROCESS ZONE MODELING OF SMALL CRACKS IN STRUCTURAL CERAMICS UNDER STATIC AND CYCLIC LOADING Univ of Houston	White Kenneth	N 36 31/07/95 \$522,114	JONES 95-NA-378	
INVESTIGATION OF MODELING THE FRETTING AND PITTING CORROSION FATIGUE PROCESSES IN STRUCTURAL ALUMINUM ALLOYS Univ of Utah	Hoepfner David	N 36 31/07/95 \$465,423	JONES 95-NA-379	
FRACTURE MECHANIC APPLICATIONS TO THE DURABILITY OF BONDED REPAIRS Georgia Institute of Tech	Johnson William	N 24 31/07/95 \$50,002	JONES 95-NA-380	
EQUIPMENT FOR MECHANICAL TESTING OF ADVANCED STRUCTURAL MATERIALS AT ELEVATED TEMPERATURES Massachusetts Institute of Technology	Spearing S	N 9 31/07/95 \$32,072	JONES 95-NA-381	

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A PROBABILISTIC MODEL OF THE EFFECT OF LOCALIZED DAMAGE ON THE RESIDUAL STRENGTH OF COMPOSITE LAMINATES University of Alabama	Highsmith Alton	N 12 31/07/95 \$54,307	JONES 95-NA-382	
MODELING, ANALYSIS, AND DESIGN OF SMART COMPOSITE STRUCTURES AND CURVED ACTUATORS Arizona State University	Chattopadhyay Aditi	N 36 03/08/95 \$269,006	WU 95-NA-383	
SHOCK LOADING OF BRITTLE MATERIALS WITH RANDOM MICROSTRUCTURES Arizona State University	Krajcinovic Dusan	N 36 03/08/95 \$198,010	FELICE 95-NA-384	
NANO-STRUCTURES VIA DIFFUSION LIMITED CRYSTALLIZATION FROM SOLUTION PRECURSORS: SYNTHESIS AND PROPERTIES Univ of California, Santa Barbara	Lange Fred	N 36 10/08/95 \$500,000	A PECHENIK 95-NA-385	\$200,000 15/10/95 \$500,000
SUPPORT ALC'S AGING AIRCRAFT WORKING GROUP MEMBERS ATTENDING AFOSR/WL AGING AIRCRAFT CONFERENCE & AFMC AGING AIRCRAFT MEETING Air Materiel Command	Moore Robert	N 02 14/08/95 \$15,000	A JONES 95-NA-386	\$15,000 10/08/95 \$15,000
DEVELOPMENT OF PREDICTIVE REACTION MODELS OF SOOT FORMATION Univ of California, Berkeley	Frenklach Michael	N 36 14/08/95 \$318,763	TISHKOFF 95-NA-387	
HIERARCHICAL ADAPTIVE MODELING Univ of Virginia	Noor Ahmed	N 36 14/08/95 \$249,300	WU 95-NA-388	
MAGNESIUM MATRIX DEFORMATION PROCESSED COMPOSITES Iowa State University	Russell Alan	N 24 14/08/95 \$505,546	WARD 95-NA-389	
DEFORMATION AND FRACTURE OF LAMINATED INTERMETALLIC MATERIALS Ohio State Univ Research Foundation	Anderson Peter	N 36 14/08/95 \$727,596	WARD 95-NA-390	

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ANALYSIS AND CONTROL DESIGN USING WAVELETS AND NEURAL NETWORKS	Ozguner	Unit	N 36 15/08/95 \$176,033	SANDERS 95-NA-391	
AEROELASTIC AND AEROSERVOELASTIC PROBLEMS OF AIRCRAFT WITH EXTERNAL STORES	Friedmann	Peretz	N 36 15/08/95 \$409,051	SANDERS 95-NA-392	
AEROELASTIC STUDIES OF VIBRATION AND HIGH CYCLE FATIGUE OF TURBINE BLADES	Bendiksen	Oddsvaer	N 36 15/08/95 \$362,083	SANDERS 95-NA-393	
CORROSION FATIGUE OF RIVETED LAP JOINTS	Arsenault	Richard	N 12 15/08/95 \$128,612	SANDERS 95-NA-394	
LOAD TRANSFER AND INTERFACE CHARACTERIZATION OF COMPOSITES	Chiang	Fu-Pen	N 36 16/08/95 \$301,980	SANDERS 95-NA-395	
MECHANICS OF FRACTURE AND FATIGUE IN PIEZOCERAMICS	Sun	C	N 36 16/08/95 \$264,940	SANDERS 95-NA-396	
CHEMICAL VAPOR INFILTRATION DESIGN OPTIMIZATION	Rosenblatt	Simon	N 24 16/08/95 \$499,697	MCMICHAEL 95-NA-397	
TRANSPORT PHENOMENA STUDIES, VIA COMPUTATIONAL SIMULATION, IN STRUCTURAL MATERIALS PROCESSING	Meyyappan	M	N 24 16/08/95 \$499,135	MCMICHAEL 95-NA-398	
MODELING & SIMULATION OF CVD PROCESSES FOR MANUFACTURING CERAMIC COMPOSITES	Lamoreux	Gene	N 24 16/08/95 \$499,840	MCMICHAEL 95-NA-399	

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FAILURE MECHANICS OF COHESIVE-FRICTIONAL MATERIALS Univ of Colorado	William Kaspar	N 36 18/08/95 \$387,516	SANDERS 95-NA-400	
FLUID-OPTIC INTERACTIONS II Univ of Notre Dame	Jumper Eric	N 36 18/08/95 \$173,772	MCMICHAEL 95-NA-401	
ATTACHED AND SEPARATED BOUNDARY LAYERS, AND THE ORIGIN OF THE LARGE STRUCTURE Yale University	Sreenivasan Katapalli	N 36 18/08/95 \$535,714	MCMICHAEL 95-NA-402	
A FUNDAMENTAL STUDY OF GAS AND VAPOR BUBBLE DYNAMICS IN MICRO- CHANNELS Johns Hopkins University	Prosperetti A	N 36 18/08/95 \$484,952	MCMICHAEL 95-NA-403	
GLOBAL AND LOCAL INSTABILITY OF VORTICES WITH AXIAL FLOW AND VORTEX BREAKDOWN PHENOMENON Univ of California, Los Angeles	Catton Ivan	N 36 18/08/95 \$482,435	MCMICHAEL 95-NA-404	
CONTROL MEASURES FOR UNSTEADY SEPARATION AT HIGH REYNOLDS NUMBER Lehigh University	Walker J	N 36 18/08/95 \$249,240	MCMICHAEL 95-NA-405	
PHASE STABILITY AND MICROSTRUCTURAL DESIGN IN HIGH TEMPERATURE (MO,NB)-SI-B ALLOYS Univ of Wisconsin	Perepezko John	N 36 23/08/95 \$383,920	WARD 95-NA-406	
TIME-ACCURATE UNSTRUCTURED CFD TECHNOLOGY FOR MANEUVERING HYPERSONIC VEHICLES Aero Soft Incorporated	Applebaum Michael	N 36 23/08/95 \$184,895	SAKELL 95-NA-407	
A STUDY OF THE SENSITIVITY OF SCRAMJET MIXING AND COMBUSTION TO EXTERNAL AND INTERNAL DISTURBANCES MWHG, Inc	Nixon David	N 36 23/08/95 \$299,757	TISHKOFF 95-NA-408	

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COMBINED EFFECTIVE STRAIN RATE FOR TURBULENT HEAT TRANSFER Purdue Research Foundation	Plesniak M	N 36 23/08/95 \$467,888	MCMICHAEL 95-NA-409	
LARGE EDDY SIMULATION OF DYNAMIC STALL NWXING. Inc	Nixon David	N 36 23/08/95 \$330,895	SAKELL 95-NA-410	
MAXIMUM POWER OPTIMIZATION OF GAS TURBINES AND GAS TURBINE ENGINES Duke University	Bejan Adrian	N 36 23/08/95 \$238,356	MCMICHAEL 95-NA-411	
ACTIVE ACOUSTIC LAUNCH LOAD ALLEVIATION Massachusetts Institute of Technology	Crawley Edward	N 12 23/08/95 \$130,073	WU 95-NA-412	
HEAT TRANSFER ENHANCEMENT IN WAVY PASSAGES UNDER ORTHOGONAL MODE ROTATION: APPLICATION TO GAS TURBINE BLADE INTERNAL COOLING Univ of Illinois	Vanka S	N 36 23/08/95 \$291,841	MCMICHAEL 95-NA-413	
THEORETICAL AND EXPERIMENTAL STUDY OF FLOW PHENOMENA RELATED TO FLUID/SURFACE INTERACTIONS Lehigh University	Walker J	N 36 24/08/95 \$437,152	SANDERS 95-NA-414	
DRAG REDUCTION FOR TURBULENT BOUNDARY LAYER FLOWS USING AN OSCILLATING WALL Univ of Texas at Austin	Bogard David	N 12 25/08/95 \$285,468	MCMICHAEL 95-NA-415	
DEVELOPMENT OF A COLLISIONAL RADIATIVE EMISSION MODEL FOR STRONGLY NON-EQUILIBRIUM FLOWS Institute for Defense Analyses	Levin Deborah	N 36 31/08/95 \$350,000	BIRKAN 95-NA-416	
NONLINEAR AEROELASTIC OSCILLATIONS IN COMPACT AIRCRAFT Georgia Institute of Tech	Berdichevsky V	N 36 05/09/95 \$247,280	WU 95-NA-417	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SYNTHESIS OF JOINTLESS COMPLAINT MECHANISMS FOR ADAPTIVE COMPLIANT WING (CACH) Univ of Michigan	Kota Sridhar	N 36 05/09/95 \$988,437	WU 95-NA-418	
MICROSTRUCTURE AND MACROSCOPIC BEHAVIOR OF RANDOM COMPOSITE MATERIALS Princeton University	Torquato Salvatore	N 36 05/09/95 \$276,801	WU 95-NA-419	
GLOBAL BEHAVIOR OF NONLINEAR AEROELASTIC FLAT PANELS IN SUPERSONIC FLOW Univ of Illinois	Namachchivaya N	N 36 05/09/95 \$198,145	WU 95-NA-420	
A PROCESSING SCIENCE OF COMPOSITE ISOGRID STRUCTURES Stanford University	Tsai Stephen	N 24 05/09/95 \$172,509	WU 95-NA-421	
SHEAR FLOW CONTROL USING SYNTHETIC JET FLUIDIC ACTUATOR TECHNOLOGY Georgia Tech Research Corporation	Glezer Ari	N 36 05/09/95 \$515,872	MCMICHAEL 95-NA-422	
IDENTIFICATION AND DAMAGE DETECTION FOR ACTIVE STRUCTURAL SYSTEMS Texas Engineering Experiment Station	Junkins John	N 36 05/09/95 \$359,783	WU 95-NA-423	
LINEAR DYNAMICS AND CONTROL OF WINGS AND PANELS Duke University	Dowell Earl	N 36 05/09/95 \$322,975	WU 95-NA-424	
ANALYSIS AND CONTROL DESIGN USING WAVELETS AND NEURAL NETWORKS Ohio State Univ Research Foundation	Ozguner Umit	N 36 05/09/95 \$176,033	WU 95-NA-425	
THEORETICAL AND EXPERIMENTAL STUDY OF FLOW PHENOMENA RELATED TO FLUID/SURFACE INTERACTIONS Lehigh University	Walker J	N 36 05/09/95 \$437,152	WU 95-NA-426	

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MULTIRESOLUTION ANALYSIS OF COMPRESSIBLE VISCOUS FLOW-STRUCTURE INTERACTION Northwestern University	Kam Liu Wing	N 36 05/09/95 \$286,385	WU 95-NA-427	
ENGINEERING OF FLOW INSTABILITY FOR MIXING ENHANCEMENT IN HIGH SPEED REACTING FLOWS Stanford University	Lele Sanjiva	N 36 05/09/95 \$292,163	TISHKOFF 95-NA-428	
EFFECT OF SURFACE ROUGHNESS ON THE GUIDED WAVE INSPECTION IN AEROSPACE STRUCTURES Iowa State University	Chimenti Dale	N 24 11/09/95 \$174,700	JONES 95-NA-429	
FIBER OPTIC ULTRASOUND SENSORS FOR SMART STRUCTURES APPLICATIONS Northwestern University	Achenbach Jan	N 36 11/09/95 \$254,519	JONES 95-NA-430	
"HIGH TEMPERATURE COMPOSITES: PROCESSING, PROPERTIES AND PERFORMANCE" Univ of Virginia	Herakovich Carl	N 12 11/09/95 \$25,000	JONES 95-NA-431	
ENGINEERING MODEL OF FAILURE IN LAMINATED AND WOVEN BRITTLE MATRIX COMPOSITES Univ of Colorado	Rogers Wayne	N 36 11/09/95 \$251,614	JONES 95-NA-432	
HYBRID CERAMIC MATRIX COMPOSITES: MECHANICAL PROPERTIES AND FAILURE MODES Univ of Missouri	Dharani Lokeswarappa	N 36 12/09/95 \$230,955	JONES 95-NA-433	
DESIGN AND PERFORMANCE EVALUATION OF LOW-COST HIGH-QUALITY HYBRID SUPER ALLOY-MATRIX COMPOSITES Univ of Tennessee	Yu N. Allen	N 36 12/09/95 \$268,997	JONES 95-NA-434	
MICROSTRUCTURAL ENGINEERING OF ADVANCED COMPOSITES Georgia Institute of Tech	Talreja Ramesh	N 36 12/09/95 \$369,779	JONES 95-NA-435	

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INTERFACE CONTROL AND STABILITY IN ADVANCED THERMAL BARRIER COATINGS Brown University	Sheldon Brian	N 36 15/09/95 \$213,900	PECHENIK 95-NA-436	
MODELING OF PROPERTIES OF DOPANTS IN CERAMIC OXIDES Michigan Technological University	Pandey Ravi	N 12 15/09/95 \$67,906	PECHENIK 95-NA-437	
FUNDAMENTAL STUDIES OF NOVEL CONTACT-DAMAGE RESISTANT CERAMICS Univ of Connecticut	Padture Nitin	N 36 15/09/95 \$313,391	PECHENIK 95-NA-438	
LAMINATED MATRIX COMPOSITES-A NEW CLASS OF MATERIALS Georgia Institute of Tech	Lackey W. Jack	N 36 15/09/95 \$536,386	PECHENIK 95-NA-439	
EFFECT OF PROCESSING ON THE EVOLUTION OF INTERFACES IN METAL MATRIX COMPOSITES Florida State University	Chandra Namas	N 24 18/09/95 \$208,189	JONES 95-NA-440	
PHASE STABILITY AND MICROSTRUCTURAL DESIGN IN HIGH TEMPERATURE (MO,NB)-SI-B ALLOYS Univ of Wisconsin	Perepezko John	N 36 18/09/95 \$383,920	WARD 95-NA-441	
MICROSTRUCTURAL STABILITY AND CREEP RESISTANCE OF INTERMETALLIC MICROLAMINATE COMPOSITES Dartmouth College	Frost Harold	N 36 18/09/95 \$622,363	WARD 95-NA-442	
SYNTHESIS, CONSOLIDATION, AND CHARACTERIZATION OF NANOCRYSTALLINE NICKEL ALUMINIDES AND COMPOSITES Washington University	L. Sastry Shankar	N 36 18/09/95 \$399,844	WARD 95-NA-443	
ADVANCED MOLYBDENUM ALLOYS AND COATINGS United Technologies Research Center	Giamel Anthony	N 36 18/09/95 \$489,973	WARD 95-NA-444	

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TITLE (TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HIGHLY TEXTURED NANOSTRUCTURED LAMINATES AS HIGH TEMPERATURE STRUCTURAL OVERLAYERS; ATOMISTIC MECHANISMS OF INTERFACIAL SLIDING Cornell University	Raj	N 36 18/09/95 \$435,000	WARD 95-NA-445	
CREEP MECHANISMS IN HIGH TEMPERATURE IN-SITU COMPOSITES General Electric Co	Bowlay	N 36 18/09/95 \$547,466	WARD 95-NA-446	
HIGH CYCLE FATIGUE OF TITANIUM ALLOYS-MEAN STRESS SENSITIVITY Worcester Polytechnic Institute	Sission	N 22 19/09/95 \$225,627	WARD 95-NA-447	
AN INVESTIGATION OF MORPHOLOGICAL STABILITY AND ITS RELATIONSHIP WITH MECHANICAL PERFORMANCE IN METAL/INTERMETALLIC MICROLAMINATE C Univ of California, Santa Barbara	Lucas	N 36 20/09/95 \$454,099	WARD 95-NA-448	
STRUCTURAL STABILITY OF MICROLAMINATES UNDER THERMAL AND MECHANICAL LOADING CYCLES Johns Hopkins University	Welths	N 36 20/09/95 \$426,413	WARD 95-NA-449	
INVESTIGATION OF THE MICROSTRUCTURAL STABILITY OF MICROLAMINATED COMPOSITES. Virginia Polytechnic Inst & State Univ	Reynolds	N 36 20/09/95 \$482,603	WARD 95-NA-450	
"TOWARDS A CHEMISTRY OF MECHANICAL BEHAVIOR" Colorado School of Mines	Eberhart	N 36 25/09/95 \$189,150	WARD 95-NA-451	
FUNDAMENTAL STUDIES ON FATIGUE BEHAVIOR OF β -TITANIUM ALLOYS Univ of Maryland	Anken	N 36 25/09/95 \$330,805	WARD 95-NA-452	
SYNTHESIS AND CONTROL OF LAYER AND INTERFACE PROPERTIES IN HIGH TEMPERATURE, METAL-INTERMETALLIC MICROLAMINATES Univ of Michigan	Was	N 36 25/09/95 \$465,180	WARD 95-NA-453	

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MICROSTRUCTURE AND HIGH-CYCLE FATIGUE RESISTANCE IN BETA TITANIUM ALLOYS Univ of California, Berkeley	Ritchie	N 36 25/09/95 \$723,990	WARD 95-NA-454	
FATIGUE BEHAVIOR OF TOUGHENED MATERIALS Case Western Reserve University	Lewandowski	N 36 25/09/95 \$600,000	WARD 95-NA-455	
HIGH PERFORMANCE OXIDATION-RESISTANT MO-BASE ALLOYS Pennsylvania State University	Koss	N 36 25/09/95 \$388,530	WARD 95-NA-456	
MICRO-MECHANISMS OF CORROSION FATIGUE OF ALUMINUM-COPPER ALLOYS BY NANO-IMAGING ACTIVE MICROSTRUCTURAL SITES Univ of Pennsylvania	Laird	N 36 25/09/95 \$480,000	WARD 95-NA-457	
STUDY OF THE EFFECTS OF MICROSTRUCTURE ON FATIGUE IN HIGH STRENGTH BETA TITANIUM ALLOYS Univ of Dayton	Eylon	N 36 25/09/95 \$494,402	WARD 95-NA-458	
"ENHANCEMENT OF WEAR RESISTANCE OF Si3N4 BY ION-IMPLANTATION AND POST-IMPLANTATION ANNEALING" Univ of California, Los Angeles	Ardell	N 36 26/09/95 \$300,000	PECHENIK 95-NA-459	
DAMAGE ALONGG EVOLVING PRINCIPAL STRETCHES IN ANISOTROPIC MEDIA Symplectic Engineering Corporation	Weissman	N 12 28/09/95 \$133,130	JONES 95-NA-460	
MICROSTRUCTURE-PROPERTY RELATIONSHIPS IN PERMANENT MOLD CAST TITANIUM-BASED ALLOYS California Polytechnic State University	Paton	N 24 28/09/95 \$213,119	WARD 95-NA-461	

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STUDIES OF OPTICAL SPECTRAL HOLEBURNING USING RAMAN COHERENT POPULATION TRAPPING Wayne State University	Kim Myung	N 36 17/07/95 \$742,828	CRAIG 95-NE-294	
QUANTUM OPTICAL STUDIES OF SEMICONDUCTORS Univ of Michigan	Steel Duncan	N 36 20/07/95 \$744,049	SCHLOSSBER 95-NE-295	
THEORETICAL INVESTIGATION OF POINT DEFECTS AND DEFECT COMPLEXES IN LOW-TEMPERATURE-GROWN GAAS Wayne State University	Morgan Caroline	N 36 21/07/95 \$196,215	WITT 95-NE-296	
RESEARCH ON NON-STOICHIOMETRIC MATERIALS FOR ADVANCED ELECTRONICS AND OPTOELECTRONICS APPLICATIONS Univ of Rochester	Wicks Gary	N 36 25/07/95 \$450,000	WITT 95-NE-297	
OPTICAL PROCESSES IN SEMICONDUCTOR MICROCAVITIES Univ of Oregon	Wang Hailin	N 36 25/07/95 \$266,000	CRAIG 95-NE-298	
T-GATE LASERS FOR SPECTRAL PROCESSING Univ of Maryland	Dagenais Mario	N 12 31/07/95 \$22,136	A CRAIG 95-NE-299	\$22,136 01/08/95 \$22,136
VERY LOW CURRENT LIGHT EMITTERS FOR MASSIVELY PARALLEL OPTICAL INTERCONNECTS Univ of Michigan	Singh Jasprit	R 36 02/08/95 \$804,340	CRAIG 95-NE-300	
OPTOELECTRONICS RESEARCH CENTER Univ of New Mexico	Brueck Steven	N 36 04/08/95 \$3,650,178	SCHLOSSBER 95-NE-301	
LOW-POWER VCSEL-BASED SMART PIXELS WITH SIMPLIFIED OPTICS Univ of California, Santa Barbara	Coldren Larry	R 36 07/08/95 \$750,000	CRAIG 95-NE-302	

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EXPERIMENTAL STUDY OF COULOMB CRYSTALLIZATION IN DUSTY PLASMA Univ of California, Riverside	Rahman	N 36 08/08/95 \$289,044	BARKER 95-NE-303	
NONLINEAR OPTOELECTRONIC INTEGRATED CIRCUITS Univ of California, Los Angeles	Fetterman	N 36 08/08/95 \$707,210	SCHLOSSBER 95-NE-304	
OPTICAL AMPLIFICATION AND NONLINEAR OPTICAL PROCESSES IN RANDOM SCATTERING MEDIA City College - CUNY	Alfano	R 36 09/08/95 \$300,000	SCHLOSSBER 95-NE-306	\$100,000 15/11/95 \$300,000
SBIR-PHASE II HIGH BRIGHTNESS RESONANT CAVITY BLUE LED'S Advanced Technology Materials Inc.	Tischler	N 24 09/08/95 \$750,000	PRAIRIE 95-NE-307	
SUPPLY LIQUID HELIUM TO UNIVERSITY OF CALIFORNIA, SAN DIEGO, IN CONNECTION WITH PROPOSAL 94NE234 "HIGH TC SUPERCONDUCTIVITY-PHYSIC Univ of California, San Diego	R. Dynes	N 12 10/08/95 \$10,000	A WEINSTOCK 95-NE-308	\$10,000 01/10/95 \$10,000
SILICON/ZINC SULFIDE MULTI-QUANTUM-WELL STRUCTURES FOR INTERSUB- BAND LASERS Texas A and M University	Kirk	N 24 10/08/95 \$292,377	CRAIG 95-NE-309	
(SYTR95-II) REDUCTION OF THERMAL STRESS INDUCED DEFECTS FOR INDIUM PHOSPHID BULK CRYSTAL GROWTH Greare Inc- Research & Development Inc	Jasinski	R 06 10/08/95 \$499,992	PRAIRIE 95-NE-310	
SYMPOSIUM Y, "ELECTRICALLY BASED MICROSTRUCTURAL CHARACTERIZATION" Materials Research Society	Pachavis	N 12 17/08/95 \$2,000	PRAIRIE 95-NE-311	
FEMTOSECOND LASER-METAL SURFACE INTERACTIONS ABOVE AND BELOW THE DAMAGE THRESHOLD Univ of Nebraska	Alexander	N 24 21/08/95 \$165,338	SCHLOSSBER 95-NE-312	

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ULTRA LOW SWITCHING ENERGY OPTOELECTRONIC PIXEL TECHNOLOGIES FOR OPTICAL INTERCONNECTIONS, MEMORIES AND COMMUNICATIONS Princeton University	Forrest	N 36 23/08/95 \$541,642	CRAIG 95-NE-313	
RESEARCH ON NONLINEAR OPTICS OF SUBFEMTOSECOND HIGH-INTENSITY PROCESSES Johns Hopkins University	Kaplan	N 36 23/08/95 \$549,684	SCHLOSSBER 95-NE-314	
SURFACE ENHANCED RAMAN OPTICAL DISK STORAGE (SERODS) Oak Ridge National Lab	Vo-Dinh	N 12 24/08/95 \$250,000	A CRAIG 95-NE-315	
STRUCTURAL INVESTIGATIONS OF LOW-TEMPERATURE GROWN MBE SEMICONDUCTOR LAYERS Lawrence Berkeley Laboratory	Lilliental-Weber	N 24 28/08/95 \$654,039	WITT 95-NE-316	
NONEQUILIBRIUM GROWTH OF Ga(N/SCD) 1-X-Y G(CE)XC(Y)/SILICON-ON- INSULATOR Cornell University	Ho	R 36 28/08/95 \$450,000	PRAIRIE 95-NE-317	
EFFICIENT LOW-POWER QUANTUM CAVITY LIGHT EMITTERS Picolight Incorporated	Jewell	N 24 30/08/95 \$498,471	CRAIG 95-NE-318	
LOW-LOSS OPTICAL WAVEGUIDES IN PRISTINE MATERIALS BY SURROUND IMPLANTATION Univ of South Florida	Djeu	N 36 31/08/95 \$284,514	SCHLOSSBER 95-NE-319	
TRAVEL Air Force Office of Scientific Research		N 06 31/08/95 \$240,000	A WEINSTOCK 95-NE-320	\$2,400 30/09/95 \$2,400
MICROWAVE PRODUCTION OF STEADY STATE LARGE VOLUME AIR PLASMAS Research Support Instruments Inc	Brandenburg	N 36 05/09/95 \$407,617	BARKER 95-NE-321	

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SPATIAL-SPECTRAL HOLOGRAPHIC APPROACHES TO THE STORAGE, PROCESSING AND MANIPULATION OF OPTICAL DATA STREAMS Univ of Oregon	Mossberg Thomas	R 36 06/09/95 \$788,040	CRAIG 95-NE-322	
OPTICAL PROCESSES IN SEMICONDUCTOR MICROCAVITIES Univ of Oregon	Wang Hailin	N 36 08/09/95 \$268,512	CRAIG 95-NE-323	
MIMICING CHARGED PARTICLE-ATOM COLLISIONS USING HALF-CYCLE ELECTROMAGNETIC PULSES Univ of Virginia	Jones Robert	N 36 11/09/95 \$180,000	KELLEY 95-NE-324	
COMPUTATIONAL PLASMA PHYSICS RESEARCH Mission Research Corp	Goplen Bruce	N 36 13/09/95 \$873,696	BARKER 95-NE-325	
OPTOELECTRONIC CACHE MEMORY SYSTEM ARCHITECTURES Univ of Pittsburgh	Chiarulli Donald	N 36 18/09/95 \$411,200	CRAIG 95-NE-326	
ULTRALOW THRESHOLD SEMICONDUCTOR LASERS BASED ON GAIN WITHOUT INVERSION Univ of New Mexico	Malloy Kevin	N 36 19/09/95 \$514,425	CRAIG 95-NE-327	
INTERFACING MASSIVELY PARALLEL COMPUTERS TO TERABIT FIBER LINKS Univ of California, San Diego	Esener Sadik	N 36 20/09/95 \$390,000	CRAIG 95-NE-328	
ULTRALOW THRESHOLD MICROLASERS Univ of Southern California	Levy Anthony	N 36 21/09/95 \$780,000	CRAIG 95-NE-329	
MANY-BODY THEORY WITH APPLICATIONS TO MAGNETISM AND HIGH- TEMPERATURE SUPERCONDUCTIVITY Univ of Utah	Mattis Daniel	N 36 26/09/95 \$427,733	D WEINSTOCK 95-NE-330	

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PHASE II STR, MODELING, DESIGN AND FABRICATION OF AN ADVANCED HIGH PRESSURE CRYSTAL GROWTH GT Equipment Tech Inc	Gupta	R 24 26/09/95 \$500,000	PRAIRIE 95-NE-331	
CHARACTERIZATION OF HYDROGEN COMPLEX FORMATION IN III-V SEMICONDUCTORS Clark Atlanta University	Williams Michael	N 36 27/09/95 \$1,218,320	PRAIRIE 95-NE-332	
LOW-THRESHOLD SEMICONDUCTOR LASERS USING LASING WITHOUT INVERSION IN DC-FIELD COUPLED DOUBLE QUANTUM WELLS Wayne State University	Zhao Yang	N 36 28/09/95 \$398,944	CRAIG 95-NE-333	
NEW INTEGRATED OPTICAL COMPONENTS FOR BROADBAND OPTICAL COMMUNICATIONS SYSTEMS Univ of Minnesota	Gopinath Anand	N 36 29/09/95 \$1,480,000	CRAIG 95-NE-334	
DEPSCOR-95 STRONGLY COUPLED ATOM-SURFACE SYSTEMS Univ of Vermont	Clougherty Dennis	N 36 29/09/95 \$223,386	KELLEY 95-NE-335	
DEPSCOR-95 BINARY TOMOGRAPHY ON LATTICES WITH APPLICATIONS TO CRYSTALLOGRAPHY Univ of Puerto Rico, Rio Piedras	Salzberg Pablo	N 36 29/09/95 \$322,799	PRAIRIE 95-NE-336	
DEPSCOR-95 FABRICATION, CHARACTERIZATION, AND APPLICATION OF HIGH TEMPERATURE SUPERCONDUCTING MERCURY-BASED CUPRATE THIN FILMS Univ of Kansas, Center for Research	Wu Judy	N 36 29/09/95 \$155,711	WEINSTOCK 95-NE-337	
DEPSCOR-95 REMOTE GENERATION AND DELIVERY OF ULTRAVIOLET LIGHT North Dakota State University	Gillispie Gregory	N 36 29/09/95 \$189,757	SCHLOSSER 95-NE-338	
DEPSCOR-95 REAL TIME OPTICAL MONITORING OF III-V SEMICONDUCTOR WET CHEMICAL ETCHING Univ of Nebraska	Snyder Paul	N 36 29/09/95 \$163,084	PRAIRIE 95-NE-339	

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TITLE
() TITLE (CONT.)
INSTITUTION

() DEPCOR-95 DEVELOPMENT OF NONLINEAR OPTICAL MATERIALS FOR OPTICAL
PARAMETRIC OSCILLATOR & FREQUENCY CONVERSION APPL. IN NEAR- & MID-
West Virginia University Research Corp

INVESTIGATOR

Halliburton Larry

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
29/09/95
\$408,186

STATUS
PROGRAM MANAGER
PROPOSAL #

SCHLOSSBER
95-NE-340

INITIATE
START DATE
TOT AMT

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NONLINEAR INSTABILITY IN SEMICONDUCTOR LASERS AND AMPLIFIERS: GEO- METRICAL AND CURRENT-INJECTION EFFECTS ON THE GROWTH OF FILAMENTS Univ of New Mexico	Paxton Alan	N 12 24/07/95 \$65,307	A HART 95-NI-039	\$14,513 12/07/95 \$14,513
DEVELOPMENT OF SHORT-WAVELENGTH LASER BASED ON SECOND HARMONIC GENERATION IN VERTICAL CAVITY SURFACE EMITTING LASER Hewlett-Packard Laboratories, Japan	Yamada Norihide	N 12 24/07/95 \$25,000	A YAKURA 95-NI-040	\$25,000 01/11/95 \$25,000
ELECTRONIC GRANTS ADMINISTRATION DEMONSTRATION PROJECT Dept of Energy - Chicago Oper Office	Washington Edwina	N 12 14/08/95 \$25,000	A HUGHES 95-NI-041	\$25,000 01/07/95 \$25,000
SYNTHESIS, PROCESSING, DEFORMATION, AND FAILURE OF SUPERPLASTIC NANOCRYSTALLINE CERAMIC COMPOSITES Indian Institute of Science	Chokshi Atul	N 24 15/08/95 \$24,840	A MCQUAY 95-NI-042	\$24,840 01/11/95 \$24,840
MECHANISMS FOR SUPPORTING AND UTILIZING INTERNET MULTICAST MULTIMEDIA University College London	Kirstein Peter	30 23/08/95 \$479,708	A ZARBO 95-NI-043	\$77,821 31/10/95 \$479,708
ELECTRONIC PROPERTIES OF LADDER TYPE CONJUGATED PROPERTIES Indian Institute of Science	Narayan K.	N 24 24/08/95 \$25,000	A MCQUAY 95-NI-044	\$25,000 01/01/96 \$25,000
ELECTRON BEAM ANALYSIS OF MINOR ELEMENT SITE OCCUPANCIES IN TERNARY, QUATERNARY AND HIGHER ORDER DUPLEX GAMMA-2 TITANIUM CSIRO	Forward Chris	N 12 26/09/95 \$25,000	A MCQUAY 95-NI-045	\$25,000 01/12/95 \$25,000

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() IMMUNOTOXICOLOGY OF EXPOSURE TO JP-8 JET FUEL Univ of Arizona	Harris David	R 24 10/07/95 \$404,173	KOZUMBO 95-NL-230	
() PHOTOINDUCED ELECTRON TRANSFER IN CONDUCTING POLYMER - FULLERENE C COMPOSITES AS A ROUTE TO HIGH PERFORMANCE NLO MATERIALS PHOTOINDUCE Univ of California, Santa Barbara	Heeger Alan	N 36 11/07/95 \$771,307	LEE 95-NL-231	
() SYNTHESIS, THERMODYNAMICS AND PROCESSING OF BLOCK COPOLYMER BASED NANOCOMPOSITES Univ of Minnesota	Bates Frank	N 36 11/07/95 \$427,718	LEE 95-NL-232	
() NOVEL ELECTROACTIVE POLYMER COATINGS FOR CORROSION CONTROL OF ALUM INUM ALLOYS Univ of Rhode Island	Yang Sze	N 36 11/07/95 \$308,791	LEE 95-NL-233	
() CORROSION PROTECTION OF ALUMINUM AND ITS ALLOYS USING ELECTROACTIV E POLYMERS Ohio State University	Epstein Arthur	N 36 11/07/95 \$386,595	D LEE 95-NL-234	
() SINGLE CRYSTAL FILMS AND WAVEGUIDES OF ORGANIC MATERIALS; PREPARAT ION AND NONLINEAR OPTICAL PROPERTIES Auburn University	Thakur Mrinal	N 36 11/07/95 \$256,051	LEE 95-NL-235	
() DEVELOPMENT OF SOME PROMISING APPROACHES FOR THE TOUGHENING OF HIG H-TEMPERATURE POLYMERS Univ of Cincinnati	Mark James	N 36 12/07/95 \$448,226	LEE 95-NL-236	
() NEW ORGANIC MATERIALS AND MECHANISMS FOR PHOTOREFRACTIVITY AND OPT ICAL NONLINEARITY Univ of Arizona	Peyghambarian N	N 36 12/07/95 \$601,711	LEE 95-NL-237	
() LONG-TERM PERFORMANCE ISSUES IN POLYMERS - CHEMISTRY AND PHYSICS Materials Research Society	Pachavis Robert	N 12 12/07/95 \$3,000	LEE 95-NL-238	

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PROCESSING AND CHARACTERIZATION OF NONLINEAR OPTICAL MATERIALS State University of New York	Prasad	N 36 14/07/95 \$840,000	LEE 95-NL-239	
DYNAMICS OF ELEMENTARY TERMOLUCULAR REACTIONS AND CLUSTER FRAGMENT ATION Univ of California, San Diego	Continetti	N 36 24/07/95 \$339,698	BERMAN 95-NL-240	
INTERFACE FORMATION AND SOLID-SOLID REACTIONS INDUCED BY CLUSTER I ON DEPOSITION Univ of Utah	Anderson	N 36 24/07/95 \$389,094	BERMAN 95-NL-241	
AB INITIO MOLECULAR DYNAMICS SIMULATIONS OF SOLUTION PHASE CHEMICA L REACTIONS Univ of Pennsylvania	Voth	N 36 24/07/95 \$246,407	BERMAN 95-NL-242	
THE MICROPHYSICS AND HETEROGENEOUS CATALYTIC CHEMISTRY OF MODEL AT MOSPHERIC ALUMINIA AEROSOLS Univ of North Carolina	Miller	N 36 25/07/95 \$444,000	BERMAN 95-NL-243	
STUDY OF SHORT-PULSED LASER RETINAL INJURY MECHANISM BY TIME-RESOL VED IMAGING OF PHOTOMECHANICAL TRANSIENTS IN RPE Massachusetts General Hospital	Lin	N 36 25/07/95 \$301,362	KOZUMBO 95-NL-244	
THEORETICAL AND EXPERIMENTAL STUDY OF THE THERMOCHEMISTRY OF BORON -OXYGEN-FLUORIDE-HYDROGEN CONTAINING MOLECULES Univ of Utah	Simons	N 36 26/07/95 \$327,071	BERMAN 95-NL-245	
MEMBRANE PROPERTIES AND NEURAL CIRCUITS OF THE SUPRACHIASMATIC NUC LEUS Colorado State University	Dudek	N 36 31/07/95 \$570,426	HADDAD 95-NL-246	
THE INFLUENCE OF SOIL CHARACTERISTICS AND MOLECULAR PROPERTIES OF HYDROCARBONS ON BIOAVAILABILITY IN AGED SOILS Battelle Pacific Northwest Laboratories	Huesemann	N 36 31/07/95 \$334,247	KOZUMBO 95-NL-247	

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PHARMACOKINETIC STUDIES TO VALIDATE DERMAL PENETRATION MODEL, IN M AN Univ of California, San Francisco	Ademola John	N 36 31/07/95 \$398,085	KOZUMBO 95-NL-248	
PROTEIN BIOMARKERS OF CHEMICAL EXPOSURE AND MOLECULAR EPIDEMIOLOGY Indiana University-Purdue Univ at Indpls	Witzmann Frank	R 36 01/08/95 \$399,482	KOZUMBO 95-NL-249	
CURE CYCLE OPTIMIZATION TO MINIMIZE CURING INDUCED FIBER STRESSES IN POLYMER MATRIX COMPOSITES Univ of Tennessee	Madhukar Madhu	N 36 01/08/95 \$257,614	LEE 95-NL-250	
AUDITORY BASIS OF SPEECH PERCEPTION International Computer Science Institute	Greenberg Steven	N 03 02/08/95 \$17,700	TANGNEY 95-NL-251	
STRUCTURE/PROPERTY RELATIONSHIPS IN ELECTROOPTIC AND PHOTOREFRACTI VE ORGANIC MACROMOLECULAR MATERIALS Univ of Maryland, Baltimore County	Hayden L. Michael	N 36 08/08/95 \$410,345	LEE 95-NL-252	
APPROXIMATE SYMMETRY IN THE DESIGN OF NON-LINEAR OPTICAL MATERIALS Delaware State College	Wheeler Kraig	N 36 08/08/95 \$485,609	LEE 95-NL-253	
EYE MOVEMENTS AND VISUAL INFORMATION PROCESSING Rutgers - The State University	Kowler Eileen	R 36 09/08/95 \$531,526	ROACH 95-NL-254	
UNDERSTANDING THE EARTH'S DYNAMICS AND STRUCTURE: JOINT SEISMIC PROGRAM AND GLOBAL SEISMIC NETWORK National Science Foundation		N 12 09/08/95 \$2,000,000	A DICKINSON 95-NL-255	\$2,000,000 15/08/95 \$2,000,000
STR95 HIGH TEMPERATURE ELECTRONIC PACKAGING: THERMAL EVALUATION OF THE SIC/BN/W PACKAGING SYSTEM Wright Materials Research	Teng M.	N 24 11/08/95 \$455,327	HEDBERG 95-NL-257	

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STTR95 HIGH-THERMAL-CONDUCTIVITY AIN CERAMIC PACKAGES FOR HIGH-TEMPERATURE ELECTRONICS Quest Integrated, Inc	Savrun	N 24 11/08/95 \$507,353	A HEDBERG 95-NL-258	\$329,068 01/01/96 \$450,577
STTR95 HIGH TEMPERATURE PACKAGING FOR SIC BASED ON LASER WELDED CO NTACTS Strategic Analysis Inc	Cole	N 24 11/08/95 \$499,984	HEDBERG 95-NL-259	
MECHANISMS OF INFRARED DETECTION BY BOLD AND CROTALID SNAKES Univ of Virginia	Grace	N 36 11/08/95 \$720,000	HEDBERG 95-NL-260	
MULTIFACTOR AGING STUDIES IN POLYMER THIN FILMS: ELECTRICAL AND PHYSICAL AGING Purdue University	Lackritz	N 36 14/08/95 \$440,677	LEE 95-NL-261	
STTR95 BRAIN AUTOMATIZATION MONITOR (BAM) FOR INTELLIGENT TUTORING SYSTEMS Sam Technology, Inc.	Gevins	N 24 14/08/95 \$499,982	TANGNEY 95-NL-262	
SPONSORSHIP OF 15TH SOUTHERN BIOMEDICAL ENGINEERING CONFERENCE Univ of Dayton	Bajpal	N 01 15/08/95 \$38,750	D HADDAD 95-NL-263	
ENERGETICS AND KINETICS OF METAL-CERAMIC INTERFACE FORMATION FROM FIRST PRINCIPLES Univ of California, Los Angeles	Carter	N 36 15/08/95 \$392,828	BERMAN 95-NL-264	
ORGANIZATION OF THE HUMAN CIRCADIAN SYSTEM Univ of Pittsburgh	Moore	R 36 21/08/95 \$574,889	HADDAD 95-NL-265	
STTR95 HAPTIC INTERFACE FOR VIRTUAL REALITY SIMULATION & TRAINING Immersion Human Interface	Rosenberg	N 24 22/08/95 \$742,589	ROACH 95-NL-266	

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STR95 REAL-TIME HUMAN POSITION AND ORIENTATION SENSING SYSTEM: A "TOTAL HUMAN" - "TOTAL SYSTEM" APPROACH Human Performance Measurement Inc	Maxwell	N 24 22/08/95 \$499,500	ROACH 95-NL-267	
STR95 A FOVEATED IMAGING SYSTEM TO REDUCE TRANSMISSION BANDWIDTH OF VIDEO IMAGES FROM REMOTE CAMERA SYSTEMS Owl Displays Inc	Webb	N 24 23/08/95 \$499,929	ROACH 95-NL-268	
FOURTH CONFERENCE ON MOLECULAR REACTION DYNAMICS IN CONDENSED MATTER Univ of Utah	Wight	N 12 30/08/95 \$10,000	A BERMAN 95-NL-269	\$10,000 15/10/95 \$10,000
THE ROLE OF COATING AND SUBSTRATE HETEROGENEITIES IN THE LONG TERM PERFORMANCE OF PAINTED ALUMINUM ALLOYS Univ of Virginia	Taylor	N 36 30/08/95 \$655,371	DE LONG 95-NL-270	
OXIDATIVE STRESS, SIGNAL TRANSDUCTION AND CELL-CELL COMMUNICATION Michigan State University	Trosko	R 24 31/08/95 \$497,370	KOZUMBO 95-NL-271	
POLYMER PROCESSING FOR ALL-OPTICAL DEVICE FABRICATION Washington State University	Kuzyk	N 36 31/08/95 \$346,674	LEE 95-NL-272	
NOVEL NONLINEAR OPTICAL MATERIALS Illinois Institute of Technology	Mandal	N 36 31/08/95 \$378,543	LEE 95-NL-273	
REACTION FIELD CAVITY OPTIMIZATION: A NEW SOLVENT MODEL FOR ELECTRO- NIC STRUCTURE THEORY Lawrence Berkeley Laboratory	Head-Gordon	N 36 31/08/95 \$469,766	BERMAN 95-NL-274	
CELLULAR INTERACTIONS IN THE SUPRACHIASMATIC NUCLEUS Yale University School of Medicine	van den Pol	N 36 05/09/95 \$661,164	HADDAC 95-NL-275	

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PROPERTIES OF COPOLYMER-CONTAINING BLENDS: THE ROLE OF MOLECULAR ARCHITECTURE Univ of Massachusetts	Karasz Frank	N 36 06/09/95 \$676,353	LEE 95-NL-276	
NEUROPHYSIOLOGICAL AND BEHAVIORAL ANALYSIS OF CIRCADIAN RHYTHM ENT RAINMENT Dalhousie University	Rusak Benjamin	R 36 06/09/95 \$538,808	HADDAD 95-NL-277	
PSYCHOMOTOR AND PERCEPTUAL ABILITIES AND SKILLED PERFORMANCE Univ of Minnesota	Ackerman Phillip	N 36 07/09/95 \$540,978	TANGNEY 95-NL-278	
STUDIES OF LATENT ACIDITY AND NEUTRAL BUFFERED CHLOROALUMINATE ION IC LIQUIDS North Carolina State University	Osteryoung Robert	N 36 13/09/95 \$454,063	DE LONG 95-NL-279	
ADVANCED SYNTHESIS OF CARBON NITRIDE Rockwell International, Science Center	Benard David	N 36 13/09/95 \$149,944	BERMAN 95-NL-280	
INVESTIGATION OF UNDERSTANDING OF CHEMICAL PROCESSES THAT MAY BIND OR SEQUESTER ORGANIC CONTAMINANTS IN SOILS AND SEDIMENTS Carnegie-Mellon University	Luthy Richard	N 12 21/09/95 \$22,000	KOZUMBO 95-NL-281	
ELECTRICAL, OPTICAL AND MAGNETIC PROPERTIES OF ORGANIC SOLID STATE MATERIALS Materials Research Society	Wnek Gary	N 12 21/09/95 \$8,000	LEE 95-NL-282	
POLYMERIC THIN FILMS FOR PHOTONIC APPLICATIONS Purdue University	Lackritz Hilary	N 12 25/09/95 \$4,000	LEE 95-NL-283	
GENETIC REPAIR IN GENOTOXICITY LaJolla Cancer Research Foundation	Rampino Nicholas	N 36 28/09/95 \$463,776	KOZUMBO 95-NL-284	

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AUTOMATED COMPARISONS OF SOFTWARE REQUIREMENTS AND IMPLEMENTATIONS Univ of Maryland	Gannon John	N 36 03/07/95 \$210,415	LUGINBUHL 95-NM-312	
GENERAL TECHNIQUES FOR FRACTAL ELECTRODYNAMICS ANALYSIS Pennsylvania State University	Werner Douglas	N 11 03/07/95 \$48,942	NACHMAN 95-NM-313	
IMPROVED TECHNIQUES FOR MODELING AND CONTROLLING NONLINEAR SYSTEMS WITH FEW DEGREES OF FREEDOM College of William and Mary	Tracy E.	N 12 07/07/95 \$93,170	JACOBS 95-NM-314	
SHEAR INSTABILITY AND MIXING EFFICIENCY OF INTERNAL GRAVITY WAVES Northwest Research Associates, Inc.	Dunkerton Timothy	N 36 07/07/95 \$237,112	D KROLL 95-NM-315	
RESEARCH PROBLEMS IN WIRELESS COMMUNICATION NETWORKS Univ of Maryland	Tassioulas Leandros	N 24 07/07/95 \$129,130	A SJOGREN 95-NM-316	\$63,611 01/11/95 \$129,130
MATHEMATICAL METHODS IN MATERIAL SCIENCE Univ of Minnesota	Friedman Avner	N 12 07/07/95 \$60,000	NACHMAN 95-NM-317	
NEURAL NETWORKS AND WAVELETS, AN INTERACTIVE STUDY California State University	Mhaskar H.	N 36 07/07/95 \$255,350	NACHMAN 95-NM-318	
MEASUREMENT-BASED ADMISSION CONTROL ALGORITHMS FOR REAL TIME COMMUNICATIONS OVER ATM AND OTHER IP NETWORKS Univ of Southern California	Danzig Peter	N 36 10/07/95 \$342,274	LUGINBUHL 95-NM-319	
ROBUSTNESS ANALYSIS AND SYNTHESIS FOR ESSENTIALLY NONLINEAR SYSTEMS Iowa State Univ of Science and Tech	Megretski Alexandre	N 36 11/07/95 \$199,175	JACOBS 95-NM-320	

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TO REFINE AND DEVELOP THE PHASE TUNED MICROSTRIP PATCH ANTENNA Florida Institute of Technology	Thursby Michael	N 36 11/07/95 \$120,638	NACHMAN 95-NM-321	
POLARIMETRIC INVESTIGATION OF ELECTROMAGNETIC SCATTERING FROM TWO DIMENSIONAL RANDOM ROUGH SURFACES THAT EXHIBIT ENHANCED BACKSCATTER Univ of Nebraska	Ezekiel Bahar	N 36 11/07/95 \$373,855	NACHMAN 95-NM-322	
FAST (PARALLEL) ALGORITHMS FOR SPHERICAL TRANSFORMS AND MANY-BODY INTERACTIONS WITH APPLICATIONS IN ELECTROSTATICS, IMAGE PROC & CHEM Univ of Houston	S. Lennart Johnsson	N 36 17/07/95 \$458,679	SCHRECK 95-NM-323	
DISTRIBUTED DETECTION THEORY AND DATA FUSION Syracuse University	Varshney Pramod	N 36 17/07/95 \$166,338	SJOGREN 95-NM-324	
DYNAMIC TYPE MATING Univ of Michigan	Duenyas Izak	N 24 17/07/95 \$189,941	GLASSMAN 95-NM-325	
INTERPRETATION OF INFRARED IMAGERY USING THERMOPHYSICAL INVARIANTS Univ of Virginia	Nandhakumar Nagaraj	N 36 17/07/95 \$177,085	WAKSMAN 95-NM-326	
RESOURCE-BOUNDED REASONING IN MULTI-AGENT ENVIRONMENTS Univ of Pittsburgh	Pollack Martha	N 36 17/07/95 \$275,526	WAKSMAN 95-NM-327	
FAST INTEGRAL EQUATION SOLVER FOR PROPAGATION OF ELECTROMAGNETIC PULSES THROUGH INHOMOGENEOUS AND DISPERSIVE MEDIA Monopole Research	Bleszynski Elizabeth	N 36 18/07/95 \$741,528	NACHMAN 95-NM-328	
PARALLEL ADAPTIVE METHODS FOR MODELING NONEQUILIBRIUM FLUIDS AND PLASMAS Univ of Michigan	Gombosi Tamas	N 12 20/07/95 \$50,000	A SCHRECK 95-NM-329	\$50,000 01/03/95 \$50,000

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THEORETICAL & NUMERICAL VALIDATION OF SCALAR EM PROPAGATION MODELING USING PARABOLIC EQUATIONS & THE PADE RATIONAL OPER APPROX Univ of Massachusetts at Lowell	Brent Ronald	N 24 21/07/95 \$41,654	NACHMAN 95-NM-330	
APPROXIMATION METHODS FOR INFERENCE AND LEARNING IN BELIEF SYSTEMS Univ of California, Irvine	Pazzani Michael	N 36 21/07/95 \$520,958	WAKSMAN 95-NM-331	
SOME PRACTICAL ISSUES IN THE DESIGN AND IMPLEMENTATION OF GROUP COMMUNICATION SERVICES Univ of Wyoming	Mishra Shivakant	N 36 26/07/95 \$304,066	LUGINBUHL 95-NM-332	
SPATIAL-COHERENCE EFFECTS IN SPECTROSCOPY Univ of Rochester	Wolf Emil	N 60 27/07/95 \$99,867	NACHMAN 95-NM-333	
THE APPLICATION OF HIGH RESOLUTION DYNAMICAL-NUMERICAL MODELS AS A TOOL TO INFER CLIMATE STATISTICS St. Louis University	Graves Charles	N 24 01/08/95 \$174,522	A KROLL 95-NM-334	\$89,851 15/09/95 \$174,522
A UNIFIED APPROACH TO H - AND H - OPTIMAL CONTROL OF SINGULARLY PERTURBED SYSTEMS ARISING IN AEROSPACE STRUCTURES Idaho State University	Naidu D. Subbaram	N 24 01/08/95 \$173,100	D JACOB 95-NM-335	
LARGE-SCALE OPTIMIZATION Naval Post Graduate School	Bradley Gordon	N 12 01/08/95 \$134,655	GLASSMAN 95-NM-336	
FUNCTION AND CONTEXT IN SITE UNDERSTANDING Univ of Maryland	Rosenfeld Azriel	N 36 01/08/95 \$876,318	WAKSMAN 95-NM-337	
CONDITIONS FOR TRIGGERING LIGHTNING New Mexico Institute of Mining and Tech	Gray Grant	N 12 01/08/95 \$147,277	KROLL 95-NM-338	

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ARTIFICIAL INTELLIGENCE METHODOLOGIES IN AIR TRANSPORTATION Washington University	Rodin	N 36 01/08/95 \$594,260	GLASSMAN 95-NM-339	
HIERARCHICAL MODELING AND SIMULATION TECHNIQUES WITH APPLICATION TO COMPUTATIONAL FLUID DYNAMICS AND FLUID-FLOW CONTROL Univ of California, Los Angeles	Christopher Anderson	N 36 01/08/95 \$445,818	SCHRECK 95-NM-340	
ELECTROMAGNETIC FIELDS AND CURRENTS EXCITED BY MODULATED LASER LIGHT ILLUMINATION OF CONDUCTING OBJECTS WITH APERTURES Clemson University	Chalmers Butler	N 24 04/08/95 \$199,716	A NACHMAN 95-NM-341	\$99,933 01/12/95 \$199,716
SYSTEM DESIGN FOR NEXT GENERATION DIGITAL WIRELESS NETWORKS Univ of Texas	Sumit Roy	N 36 08/08/95 \$161,845	SJOGREN 95-NM-342	
MULTIFACTOR AGING STUDIES IN POLYMER THIN FILMS: ELECTRICAL AND PHYSICAL AGING Purdue Research Foundation	Hillary Lackritz	N 36 09/08/95 \$440,677	NACHMAN 95-NM-343	
EFFICIENT ALGORITHMS AND ARCHITECTURES FOR SUPERRESOLUTION ARRAY PROCESSING Wright State University	Arbab Shaw	N 24 09/08/95 \$119,407	SJOGREN 95-NM-344	
A FORMAL APPROACH FOR THE DESIGN OF REAL-TIME DISTRIBUTED SYSTEMS Florida International University	Michael Evangelist	N 36 14/08/95 \$350,985	LUGINBUHL 95-NM-345	
ROBUST NONLINEAR CONTROL OF PILOTTED TAILLESS FIGHTERS Univ of Minnesota	Andrew Teel	N 36 16/08/95 \$292,932	JACOBS 95-NM-346	
ROBUST NONLINEAR CONTROL OF PILOTTED TAILLESS FIGHTERS Univ of Colorado	John Hauser	N 36 16/08/95 \$390,993	JACOBS 95-NM-347	

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A PASSIVE RADAR FOR ATMOSPHERIC REMOTE SENSING USING COMMERCIAL FM BROADCASTS Univ of Washington	Sahr	N 24 17/08/95 \$95,354	KROLL 95-NM-348	
John				
NONLINEAR ALGORITHMS FOR ROBUST SIGNAL PROCESSING Massachusetts Institute of Technology	Oppenheim	N 48 17/08/95 \$408,843	SJOGREN 95-NM-349	
Alan				
HIGH ORDER SCHEMES FOR MAXWELL'S EQUATIONS Brown University	Gottlieb	N 36 17/08/95 \$524,629	NACHMAN 95-NM-350	
David				
REFINED THEORY FOR THICK COMPOSITE PLATE AND SHELL FINITE ELEMENTS Wayne State University	Sutyrin	N 36 17/08/95 \$254,972	NACHMAN 95-NM-351	
Vladislav				
EFFICIENT ALGORITHMS FOR LEARNING AND REASONING IN INTELLIGENT SYSTEMS Johns Hopkins University	Kasif	N 36 17/08/95 \$180,677	WAKSMAN 95-NM-352	
Simon				
TUTORING THE PLANNING OF SOLUTIONS Univ of Pittsburgh	VanLehn	N 36 17/08/95 \$375,407	WAKSMAN 95-NM-353	
Kurt				
FRONTIER GEOPLASMA RESEARCH Massachusetts Institute of Technology	Chang	N 42 23/08/95 \$540,846	KROLL 95-NM-354	
Tom				
MODELING AIR FORCE LOGISTIC AND TRANSPORTATION PROBLEMS USING DISCRETE MATHEMATICS AND LARGE-SCALE OPTIMIZATION Armstrong Laboratory	Segall	N 12 28/08/95 \$57,620	GLASSMAN 95-NM-355	
Richard				
FLUID MECHANICS AND RHEOLOGY OF LIQUID FIBER FLOWS: FUNDAMENTAL SCIENCE AND TECHNOLOGICAL APPLICATIONS Ohio State Univ Research Foundation	Forest	N 36 28/08/95 \$304,667	NACHMAN 95-NM-356	
M. Gregory				

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APPROXIMATE METHODS FOR NONLINEAR WAVES Clarkson University	Kaup David	N 36 28/08/95 \$158,886	NACHMAN 95-NM-357	
EQUATIONS OF MOTION OF DILUTE GASES WITH APPLICATIONS TO FLIGHT AT HIGH ALTITUDES Cambridge Hydrodynamics Incorporated	Goldhirsch Isaac	N 24 28/08/95 \$159,198	SCHRECK 95-NM-358	
THEORETICAL STUDIES IN CROSSED-FIELD DEVICES Kaup Inc	Kaup D. J.	N 36 30/08/95 \$271,143	A NACHMAN 95-NM-359	\$89,812 01/01/96 \$271,143
FLUID MECHANICS AND RHEOLOGY OF LIQUID FIBER FLOWS: FUNDAMENTAL SCIENCE AND TECHNOLOGICAL APPLICATIONS Indiana University-Purdue Univ at Indpls	Wang Qi	N 36 30/08/95 \$98,618	NACHMAN 95-NM-360	
NEWS: A NON-LINEAR ELEMENT UPSTREAM WAVE STATEMENT FOR THE 3-D NAVIER-STOKES EQUATIONS Univ of Tennessee	Ianelli Joe	N 36 31/08/95 \$84,541	SCHRECK 95-NM-361	
ADVANCED NONLINEAR CONTROL OF TAILLESS FIGHTERS Rockwell International, Science Center	Cheng J. John	N 12 06/09/95 \$228,671	JACOBS 95-NM-362	
SIGNAL PROCESSING APPROACHES INSPIRED BY THE AUDITORY SYSTEM Univ of Rhode Island	Kumaresan Ramdas	N 36 07/09/95 \$227,758	SJOGREN 95-NM-363	
RESEARCH IN COMPUTATIONAL CONTROL AND OPTIMIZATION, COMPUTATIONAL MATHEMATICS, AND COMPUTATIONAL METHODS FOR SUPERCONDUCTIVITY, ETC. Iowa State University	Gunzburger Max	N 36 14/09/95 \$90,792	SCHRECK 95-NM-364	
TOPICS IN NEURAL NETWORKS, STOCHASTIC AND DYNAMICAL SYSTEMS Oregon State University	Burton Robert	N 36 14/09/95 \$92,908	SJOGREN 95-NM-365	

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NATURAL LANGUAGE GENERATION BASED ON DESIRED INTENTION Southwest Texas State University	Kaikhah Khosrow	N 12 15/09/95 \$83,976	0 WAKSMAN 95-NM-366	
DETERMINATION OF THE PRESSURE GRADIENT FORCE OVER COMPLEX TERRAIN Univ of Kansas, Center for Research	Tucker Donna	N 36 18/09/95 \$182,033	KROLL 95-NM-367	
STUDIES IN RELIABILITY THEORY AND SURVIVAL ANALYSIS AND IN MARKOV CHAIN MONTE CARLO METHODS Ohio State Univ Research Foundation	Doss Hani	N 24 19/09/95 \$83,503	SJOGREN 95-NM-368	
APPLICATION OF WAVELETS IN SIGNAL PROCESSING, SPEECH RECOGNITION, AND REVERSE ENGINEERING Old Dominion Univ Rsh Foundation Inc.	Li Wu	N 24 22/09/95 \$39,910	SJOGREN 95-NM-369	
THE STRUCTURE AND AMPLIFICATION OF THE 2-DAY WAVE Univ of Colorado	Salby Murry	N 36 22/09/95 \$288,536	KROLL 95-NM-370	
RESEARCH IN NONLINEAR PROBLEMS ARISING IN MECHANICS Univ of Wisconsin	Slemrod Marshall	N 36 27/09/95 \$121,922	NACHMAN 95-NM-371	
OPTIMAL DESIGN OF VERY LARGE-SCALE INTEGRATED NETWORKS USING INTEGER PROGRAMMING & GENETIC ALGORITHMS FOR TELECOM & LOGISTICS AT & T Bell Laboratories - GRP	Nagorka Peter	N 12 28/09/95 \$362,755	GLASSMAN 95-NM-372	
VARIATIONAL DATA ASSIMILATION OF SSM/T, SSM/T-2, AND GOES-8 OBSERVATIONS National Center for Atmospheric Research	Zou Xiao lei	N 36 29/09/95 \$469,750	KROLL 95-NM-373	
ANALYSIS OF DIGI SEISMIC DATA FROM BROADBAND STA & MEDIUM APERTURE SEISMIC ARRAYS IN KAZAKHSTAN FOR DETECT & DISCRIM OF EARTHQUAKES Columbia University	Kim Won-Young	N 24 29/09/95 \$264,004	DICKINSON 95-NM-374	

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CLEARING PHASED ARRAY RADAR DATA Univ of Colorado	Weigand Andreas	N 36 29/09/95 \$207,725	SJOGREN 95-NM-375	
COUPLING OF EARTH'S MAGNETOSPHERE AND IONOSPHERE IN A REALISTIC MAGNETIC FIELD Prairie View A&M University	Huang Tian-Sen	N 36 29/09/95 \$425,921	RADOSKI 95-NM-376	