

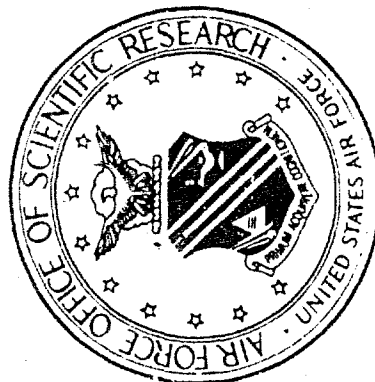
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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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RESEARCH PROPOSAL QUARTERLY STATUS REPORT

OCTOBER 1988

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PREPARED BY:

DEBRA TYRRELL, CHIEF

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(202) 767-4912 or AUTOVON 297-4912

INTRODUCTION

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 The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report.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

PURPOSE

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

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

AFOSR MISSION

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

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

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

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

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

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

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

- BLANK SPACE = indicates the proposal is being reviewed.

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

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

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

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

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

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

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BOLLING AIR FORCE BASE, DC 20332

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Technical Director Dr John O. Dimmock 5018

NA - DIRECTORATE OF AEROSPACE SCIENCES

	EXT
Director Dr Michael Salikind	4987
Prog Mgr Dr Mitat Birkan	4938
Prog Mgr Dr Anthony Amos	4937
Prog Mgr Dr Spencer Wu	6962
Prog Mgr Dr Julian Tishkoff	0465
Prog Mgr Dr James McMichael	4936
Prog Mgr Maj Steven Boyce	6963
Prog Mgr Lt Col George Haritos	0463
Prog Mgr Cap Henry Helin	0471
Prog Mgr Dr Leonidas Sakell	4935

NL - DIRECTORATE OF LIFE SCIENCES

	EXT
Director Dr Robert K. Dismukes	4278
Prog Mgr Dr William O. Berry	5021
Prog Mgr Dr Alfred R. Fregly	5021
Prog Mgr Maj T. Jan Cerveny	5021
Prog Mgr John F. Tangney	5021
Expert Consultant Dr John Jonides	5021

NC - DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

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

NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

Director Dr Horst R. Wittmann	4984
Dep Director Dr Alan Rosenstein	4933
Prog Mgr Dr Cole Litton	4931
Prog Mgr Lt Col Robert W. Carter, Jr.	4931
Prog Mgr Dr Gerald Witt	4931
Prog Mgr Dr Clyde Giles	4931
Prog Mgr Dr Harold Weinstein	4933
Prog Mgr Dr Liselette Schioler	4933
Prog Mgr Dr Cole Litton	4931

NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

Director Dr Charles J. Holland	5025
Prog Mgr Maj Brian Woodruff	5027
Consultant Dr Sam Rankin	4940
Prog Mgr Dr Abraham Waksman	5027
Prog Mgr Dr Arje Nachman	4939
Prog Mgr Dr Eytan Barouch	4939
Prog Mgr Lt Col David Nelson	4939

NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE

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

PART I

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AERODYNE RESEARCH INC	WORSNOP	DOUGLAS		88-NC-243		MODARCZYK
AIR FORCE WEAPONS LAB	GURNETTE	HOWARD		88-NA-324	A	NACHMAN
AMERICAN COLLEGE OF TOXICOLOGY	VENTURA	ALEXANDRA		88-NM-575	A	HELSON
AMERICAN MATHEMATICAL SOCIETY	MAXWELL	JAMES	W	88-NL-262	A	CERVENY
ARIZONA STATE UNIVERSITY	VARACAS	GEORGE	N	88-NL-263	A	CERVENY
				88-NM-484		NACHMAN
				88-NE-220		WITT
				88-NE-222	A	WITT
ARMY RESEARCH OFFICE	MENENDEZ	JOSE		88-NE-248		LITTON
	TROTTER	WILLIAM	T	88-NM-572	A	NACHMAN
	MANN	DAVID	M	88-NA-311	A	TISHKOFF
				88-NP-178	A	SMITH
AUBURN UNIVERSITY	HUDSON	W	N	88-NM-488		WOODRUFF
BDM CORPORATION	ATHALE	RAVINDRA		88-NE-236		GILES
BOSTON UNIVERSITY	RAILLIEUL	JOHN	A	88-NM-570	A	WOODRUFF
	GROSSBERG	STEPHEN		88-NL-303	D	TANGNEY
	OLIVER, JR.	WILLIAM	L	88-NC-241		KOERNER
	WAXMAN	ALLEN	M	88-NL-266		TANGNEY
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	CROLL	JAMES	V	88-NA-336		AMOS
CSA ENGINEERING, INC.	SMITH	KEVIN	E	88-NA-313		NACHMAN
CALIFORNIA INSTITUTE OF TECHNOLOGY	BLAKE	GEOFFREY	A	88-NC-236		MODARCZYK
	LEONARD	ANTHONY		88-NM-474		NACHMAN
	MCKOY	VINCENT		88-NC-225	A	DAVIS
				88-NC-269	A	DAVIS
CALIFORNIA STATE UNIVERSITY	STURTEVANT	BRADFORD	E	88-NA-338		SAKELL
	YARBROUGH	ALLYSON	S	88-NE-219		WITT
			D	88-NE-223	A	WITT
CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	GASTER	MICHAEL		88-NA-374		MCMICHAEL
CARNEGIE-MELLON UNIVERSITY	BALAS	EGON		88-NM-469	A	MILLER
	GREVE	DAVID	W	88-NE-210	A	MALLOY
CASE WESTERN RESERVE UNIVERSITY	KOENIG	JACK	L	88-NC-263		BURGGRAB
CENTRAL INSTITUTE FOR THE DEAF	GILKEY	ROBERT	H	88-NL-294		YANGNEY
CEREMATEC INC	CUTLER	RAYMOND		88-NE-218	A	SCHIGLER
CHRONOS RESEARCH LABS	BRUNO	DAVID	A	88-NA-303		AMOS
CLARKSON UNIVERSITY	CHEW	HERMAN		88-NP-179	D	SCHLOSSBER
COLORADO SCHOOL OF MINES	HENRIKSEN	MOGENS		88-NE-226		SCHIDLER
COLORADO STATE UNIVERSITY	ROCCA	JORGE	J	88-NP-220		SCHLOSSBER
	SRIVASTAVA	JAYA	N	88-NM-560		WOODRUFF
	WILMSEN	CARL	W	88-NE-204		WITT
COLUMBIA UNIVERSITY	CHUDNOVSKY	DAVID	V	88-NM-482		NACHMAN
	HARTMAN	SVEN	R	88-NP-191	D	SCHLOSSBER
	LIEBER	CHARLES	M	88-NC-274		BURGGRAB
	OSGOOD	RICHARD	M	88-NP-194		SCHLOSSBER
	WANG	WEN	I	88-NE-211	A	LITTON
COMPUTATIONAL MECHANICS COMPANY INC	YATRACOS	YANNIS	G	88-NM-521		WOODRUFF
CORNELL UNIVERSITY	ODEN	J	T	88-NA-285	A	AMOS
	LION	LEONARD	W	88-XO-020	A	CAVENDER
	LUMLEY	J	L	88-NA-321	A	MCMICHAEL

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

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CULHAM LABORATORY	WOLCZANSKI	PETER	T	88-NC-223	A	MATUSZKO
DARTMOUTH COLLEGE	GREEN	T	S	88-NP-157		SMITH
	FENDRICH	ROBERT		88-NL-317	A	TANGNEY
	HUGHES	RUSSELL	P	88-NC-250		MATUSZKO
DEFENSE NUCLEAR AGENCY	RUSTAN	PETER		88-NP-170	A	SMITH
DOW CHEMICAL CO	LYSENKO	ZENON	S	88-NC-262		ULRICH
DREXEL UNIVERSITY	WANG	ALBERT		88-NC-371	A	MARITOS
DUKE UNIVERSITY	MADEY	JOHN	M	88-NP-177	A	SCHLOSSER
DYNAMICS TECHNOLOGY INC	DUSE	C	M	88-NA-294		AMOS
ECOLE NATIONALE SUPERIEURE	LEMAITRE	JEAN		88-NA-297		MARITOS
EYE RESEARCH INSTITUTE & RETINA FNDTN	AREND	LAWRENCE	E	88-NL-302		TANGNEY
FLORIDA INSTITUTE OF TECHNOLOGY	RUSSELL	JOHN	M	88-NM-576	D	NACHMAN
FORD AEROSPACE & COMMUNICATIONS CORP	LEMJINE	AUSTIN		88-NM-486		WOODRUFF
GENERAL ANALYTICS CORPORATION	ADOMIAN	GEORGE		88-NA-335		AMOS
GENERAL ELECTRIC CO	PINKBEIMER	HERMAN	L	88-NC-245	A	MATUSZKO
	MCCELLIGOTT	P	E	88-NM-565	A	WAKSMAN
GEORGE MASON UNIVERSITY	WEGMAN	EDWARD	J	88-NM-567	A	WOODRUFF
GEORGE WASHINGTON UNIVERSITY	FIACCO	ANTHONY	V	88-NM-527		HOLLAND
	SINGPURWALLA	NOZER	D	88-NM-580		WOODRUFF
GEORGIA INSTITUTE OF TECH	WU	JAMES	C	88-NA-343		HELIN
GEORGIA TECH RESEARCH CORPORATION	ABHIRAMAN	A. S.		88-NC-237	A	DAVIS
	AKYILDIZ	IAN	F	88-NM-520	A	WAKSMAN
	ATLURI	S	N	88-NA-318		NACHMAN
	BUCK	JOHN	A	88-NP-200		SCHLOSSER
	GOLE	JAMES	L	88-NC-238		WODARCZYK
	HODGES	D	H	88-NA-314		NACHMAN
	LANDMAN	UZI		88-NC-249		DAVIS
	SIMITSES	GERGE	J	88-NA-319		NACHMAN
	WEMPNER	GERALD		88-NA-317		NACHMAN
GEORGIA UNIV RESEARCH FOUNDATION INC	POTTER	WALTER	D	88-NM-531		WAKSMAN
GORDON RESEARCH CONFERENCES INC	CRICKSHANK	ALEXANDER	M	88-NC-260	D	ULRICH
	DEMARTINO	RONALD	N	88-NC-285	D	MATUSZKO
M.C.C., SCIENCE & TECHNOLOGY INC.	LOWE	CALVIN	W	88-NC-261		ULRICH
MANHATTAN UNIVERSITY	VENABLE	DEMETRIUS	D	88-NP-209	A	SCHLOSSER
	GROSZ	BARBARA	J	88-NP-186		SCHLOSSER
HARVARD UNIVERSITY	KOSSLYN	STEPHEN	M	88-NM-547	A	WAKSMAN
	KRONAUER	RICHARD	E	88-NL-311	A	FREGLY
HOWARD UNIVERSITY	KUSHANAMA	VIKRAM	S	88-NL-309		TANGNEY
IBM ALMADEM RESEARCH CENTER	SWALEN	JEROME	D	88-NP-190		KELLEY
ILLINOIS INSTITUTE OF TECHNOLOGY	GURALNICK	SIDNEY	A	88-NC-224	A	ULRICH
	NASH	PHILIP		88-NA-289		WU
	OLSEN	ELWOOD	T	88-NE-205	A	ROSENSTEIN
	SAXENA	S	K	88-NM-487		WOODRUFF
INDIANA UNIVERSITY FOUNDATION	AFOLADI	DARE		88-NA-295		WU
	WIGHTMAN	MARK		88-NA-286	A	AMOS
	WONG	DONALD		88-NL-285	A	BERRY
INDIANA UNIVERSITY-PURDUE UNIV AT INDPLS	WITZMANN	FRANK	A	88-NL-306		TANGNEY
INSTITUTE FOR STUDY OF INTELLIGENT SYS.	SEISENHARDT	ROBERT	G	88-NL-292	A	CERVENY
				88-NE-239	A	GILES

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
INTERFACE FOUNDATION OF NORTH AMERICA JESSEN (JAMES MICHAEL) JET PROPULSION LABORATORY JOHNS HOPKINS UNIVERSITY	EDDY	WILLIAM	F	88-NM-563		WOODRUFF
	JESSEN	JAMES	M	88-NP-184	D	RADOSKI
	ZAK	MICHAEL		88-NE-245		GILES
	ANANDARAJAH	A		88-NM-365		BOYCE
	ELLIS	J. HUGH		88-NM-468		MILLER
	GOLDSTEIN	MOISE	H	88-NL-308		TANGNEY
	KHURGIN	JACOB	B	88-NE-241		MALLOY
	PONTE-CASTANEDA	PEDRO		88-NA-288		MARITOS
	SILVER	DAVID	M	88-NP-182		KELLEY
	WORLEY	PAUL		88-NL-297		BERRY
KANSAS STATE UNIVERSITY KENT STATE UNIVERSITY	WOCKEY	CHARLES	L	88-NP-224		KELLEY
	DORMAN	ROBERT	V	88-NL-270	A	BERRY
	GARTLAND, JR.	EUGENE	C	88-NM-499		CROWLEY
	LEUNG	KA-NGO		88-NP-206	A	SMITH
LAWRENCE BERKELEY LABORATORY LAWRENCE LIVERMORE LAB (CALIF UNIV)	DICKINSON	PAUL		88-NP-172	A	SMITH
	HISKES	JOHN		88-NP-204	A	SMITH
	NOVAK	PAUL	F	88-NP-217	A	SMITH
LEHIGH UNIVERSITY	CHAN	KELEN	M	88-NE-209	A	SCHIZLER
	WALKER	J. D. A.		88-NA-349	A	HELM
LINCOLN LABORATORY/MIT	ANDERSON	ALFREDO		88-NE-240	A	WEINSTOCK
	LIPPMAN	RICHARD		88-NE-244		GILES
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FELD	MICHAEL	S	88-NP-207		SCHLOSSBER
	FOSTER	JOHN	C	88-NC-275	A	STOBIE
	GREENSPAN	HARVEY	P	88-NM-511		NACHMAN
	HARITONIDIS	JOSEPH	H	88-NA-375		MCMICHAEL
	KLEPPNER	DANIEL		88-NP-215	A	KELLEY
	MITTER	SANJOY	K	88-NM-473	A	WOODRUFF
	PRICHARD	DAVID	E	88-NP-219		KELLEY
	PRITCHARD	DAVID	E	88-NP-159	A	KELLEY
	VICHNAIC	GERARD	Y	88-NM-475		NACHMAN
	BALLANCE	JOHN	B	88-NP-166	A	SCHLOSSBER
MATERIALS RESEARCH SOCIETY MICHIGAN STATE UNIVERSITY	FALCO	ROBERT	E	88-NA-347	A	MCMICHAEL
	KOCHESFAMANI	MANOCHHE		88-NA-376		MCMICHAEL
	TROSKO	JAMES	E	88-NL-310	A	CERVENY
	KOLKKA	ROBERT	W	88-NM-522	D	NACHMAN
	WARSZ	Z. U.	A	88-NM-480		NACHMAN
	LAPEYRE	GERALD	J	88-NE-227	A	MALLOY
	SAMBANDHAN	M.		88-NM-537		NACHMAN
	COOPER	O.		88-NP-161	A	KELLEY
	AJELLO	JOSEPH	M	88-NP-162	A	KELLEY
	JOHNSTON	BILL		88-NP-174	A	SMITH
MICHIGAN TECHNOLOGICAL UNIVERSITY MISSISSIPPI STATE UNIVERSITY MONTANA STATE UNIVERSITY MONTANASE COLLEGE NASA - AMES RESEARCH CENTER NASA - NATL AERONAUTICAL AND SPACE ADMIN NASA - Wallops Flight Center NATIONAL ACADEMY OF SCIENCES NATIONAL BUREAU OF STANDARDS	WANKA	ROBERT	H	88-XO-023	A	CAVENDER
	BOGGS	PAUL		88-NM-512	A	MILLER
	EDERER	DAVID	L	88-NP-171	A	KELLEY
	HASTIE	JOHN	W	88-NE-238	A	SCHIZLER
	HERRON	JOHN	T	88-NC-219	A	WODARCZYK
	JULIENNE	PAUL	S	88-NP-158	A	KELLEY
	MOHR	PETER	J	88-NP-227		KELLEY
	WINELAND	DAVID	J	88-NP-155	A	KELLEY

REPORT DATE 10/13/88

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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

INSTITUTION

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PURQUE RESEARCH FOUNDATION	LITTMAN	MICHAEL	G	88-NP-197		SCHLOSSBER
	PEARSON	JOHN	C	88-NL-320		TANGNEY
	RABITZ	HERSCHEL		88-NA-305	A	TISHKOFF
	SMITS	ALEXANDER	J	88-NA-348	A	SAKELL
RMA AEROSPACE INC	CHAMEAU	JEAN-LOU	D	88-NA-341	A	BOYCE
	WOKAN	STEVEN	S	88-NA-284	A	AMOS
	STAMARA	JULIAN	D	88-NP-189	A	RAOOSKI
	COLE	RICARDON	D	88-NM-515	A	NACHMAN
RENSELAER POLYTECHNIC INSTITUTE	DOBRY	ARTHUR		88-NA-350	A	BOYCE
	FONTIJN	JOYCE	R	88-NA-298	A	BIRKAN
	MCLAUGHLIN	NORMAN	S	88-NM-514		JACOBS
	STOLOFF	GARY	E	88-NE-246		ROSENSTEIN
RICE UNIVERSITY	DEFIGUEIREDO	RUI J.	P	88-NC-256		ULRICH
	GILBERT	CHARLES		88-NM-498		CROWLEY
	MORRELL	FRANK		88-NL-273		TANGNEY
	LEYTON	MICHAEL	D	88-NL-277		BERRY
RUSH-PRESBYTERIAN-ST LUKE'S MEDICAL CTR	SOMTAG	EDUARDO		88-NL-265		TANGNEY
	MARGE	MAGNE	R	88-NM-573	A	WODRUFF
	PETERSON	JAMES		88-NA-308		WU
	SHOCKEY	DONALD	A	88-NP-163	A	SMITH
SOCIETY OF TOXICOLOGY	CASSEDDY	JOAN	W	88-NE-216	A	ROSENSTEIN
	SANASACK	DAVE		88-NL-260	A	CERVENY
	ENGLMAN	R	C	88-NL-261	A	CERVENY
	GUPTA	S	W	88-NL-287	A	CERVENY
SOUTHERN METHODIST UNIVERSITY	STUMP	BRIAN		88-NL-288	A	CERVENY
	ASHLEY	MOLT		88-NA-290		WU
	BRYSON	ARTHUR		88-NE-201	A	GILES
	CANTWELL	BRIAN	J	88-NP-168	A	SMITH
STANFORD UNIVERSITY	FERZIGER	JOEL	H	88-NP-214	A	SMITH
	JOHNSTON	JAMES	P	88-NA-342		HELIN
	LINDAU	I.		88-NA-312	A	AMOS
	MOIN	PARVIZ	D	88-NA-368		MCMICHAEL
STATE UNIVERSITY OF NEW YORK	NIX	WILLIAM		88-NA-327		MCMICHAEL
	PAVEL	MICHAEL		88-NA-306	A	HELIN
	SWATZ	CARLA	J	88-NP-175	D	SCHLOSSBER
	SIEGMUND	DAVID	C	88-NE-199	A	SAKELL
STEVENS INSTITUTE OF TECHNOLOGY	SIND	RICHARD	N	88-NL-293		ROSENSTEIN
	ZARE	BRUCE	M	88-NL-305		FREGLY
	DOM	DANIEL	J	88-NM-577		BERRY
	INMAN	JAVADO	R	88-NM-485		WODRUFF
TEL-AVIV UNIVERSITY	LAGHARI	ISRAEL		88-NC-281	A	CROWLEY
	FISCHER	MILOS	E	88-NL-290	A	WODRUFF
	SEIDL	ISRAEL		88-NA-361	A	WODRUFF
	WYGNANSKI	DAVID		88-NP-193	A	WODRUFF
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LEFKOVITZ	DAVID		88-NC-253	A	WODRUFF
				88-NP-213	A	WODRUFF
				88-NA-372	A	WODRUFF
				88-NM-493	A	WODRUFF

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
TEXAS A AND M RESEARCH FOUNDATION	CARROLL	R	J	88-NM-545	A	WOODRUFF
	HALVERSON	DON	R	88-NM-501	A	WOODRUFF
	STYBLINSKI	A	A	88-NM-510	A	CROWLEY
	WEITSMAN	Y	J	88-NA-320	A	HARITOS
TEXAS A AND M UNIVERSITY	MURGER	CHRISTIAN	P	88-NA-367	A	HARITOS
	KIRK	W. P	P	88-NE-233	A	WITT
	MARTIN	CHARLES	R	88-NC-289	A	WILKES
	SCHAPERY	RICHARD	A	88-NA-369	A	HARITOS
TEXAS ENGINEERING EXPERIMENT CENTER	BATE	R	T	88-NE-237	A	WITT
	ZIENER	KLAUS	W	88-NP-212	A	BARKER
	COUNCIL	FRANCIS	E	88-NA-307	A	WU
	CASSENTI	BRICE	N	88-NP-225	A	KELLEY
PROGLODYTE SOCIETY, INC.	ADAMOWICZ	LUONIK		88-NP-187	A	KELLEY
	GEHRELS	TOM		88-NP-216	A	KELLEY
	LI	SHU		88-NM-479	A	RADOSKI
	NETUS	MARCEL	F	88-NM-566	A	CROWLEY
UNIV OF CALIFORNIA	ORTIZ	KEITH		88-NA-323	A	WOODRUFF
	SARIO	DROR		88-NP-208	A	HARITOS
	SENFORD	GREGORY		88-NP-202	A	SCHLOSSER
	BRUCH	JOHN	C	88-NM-497	A	BARKER
UNIV OF CALIFORNIA, SAN DIEGO	CARTER	EMILY		88-NC-268	A	CROWLEY
	FETERMAN	MAROLD	R	88-NP-210	A	DAVIS
	GUSTAFSON	T. KENNETH		88-NP-192	A	SCHLOSSER
	KUMMEL	ANDREW		88-NC-227	A	SCHLOSSER
UNIV OF CHICAGO	LEON	MICHAEL		88-NE-228	A	BURGGRAF
	LUMMANN, JR.	NEVILLE	C	88-NL-295	A	LITTON
	MORSE	EDWARD	C	88-NP-176	A	BERRY
	MUKHERJEE	EDWARD		88-NP-165	A	PARKER
UNIV OF CINCINNATI	NEYNABER	BISHANATH		88-NM-519	A	SMITH
	ORCUTT	ROY	H	88-NP-221	A	WAKSMAN
	PARKER	JOHN	A	88-NP-198	A	KELLEY
	PIMENTEL	DAVID	H	88-NC-270	A	SMITH
UNIV OF COLORADO	RAYACHANDRAN	GEORGE	C	88-NC-273	W	WODARCZYK
	REISS	V	S	88-NL-298	A	WODARCZYK
	TILLEY	HOWARD		88-NC-259	A	TANGNEY
	TROGLER	TERRY DON		88-NC-286	A	ULRICH
UNIV OF COLORADO AT DENVER	DESTERREICHER	WILLIAM	C	88-NC-235	A	MATUSZKO
	SIBENER	JOHANN	K	88-NE-232	D	MATUSZKO
	HUBBARD	STEVEN	J	88-NC-284	A	WEINSTOCK
	ELLISON	ARTHUR	T	88-NC-248	A	BURGGRAF
UNIV OF COLORADO AT DENVER	FREYNUTH	G. BARNEY		88-NC-234	A	WILKES
	JORDAN	PETER	F	88-XD-021	A	BURGGRAF
	LINBERGER	HARRY		88-NA-526	D	CAVENDER
	ONEIL	W. CARL		88-NC-282	A	NELSON
UNIV OF COLORADO AT DENVER	STURE	STEPHEN		88-NC-265	A	WODARCZYK
	TAPPEN	STEIN		88-NA-293	A	DAVIS
	VAIDA	JOHN	B	88-NC-271	A	WU
	MANTEUFFEL	VERONICA		88-NC-232	A	DAVIS
UNIV OF COLORADO AT DENVER		THOMAS	A	88-NM-539	A	WODARCZYK
						NELSON

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF CONNECTICUT	NEUMANN		MICHAEL		88-NM-581	A	NELSON
UNIV OF DAYTON	FRATINI		ALBERT	V	88-MC-233	A	DAVIS
UNIV OF DELAWARE	GILBERT		ROBERT	P	88-NM-556		NACHMAN
	KLEINMAN		RALPH	E	88-NM-549		WU
	VINSON		JACK	R	88-NA-363		KELLEY
UNIV OF FLORIDA	BARTLETT		RODNEY	J	88-NP-156	A	WOODRUFF
	KHURI		ANDRE	I	88-NM-529		KELLEY
	OHRI		YNGVE		88-NP-183		WOODRUFF
	SIVAZLIAN		B.	D	88-NM-562		CAVENDER
	TEAS		DONALD	C	88-XO-022	A	ULRICH
	WALKER		JAMES	K	88-MC-251		SMITH
UNIV OF HAWAII	WALKER		DANIEL	A	88-NP-180		WU
UNIV OF HOUSTON	MSU		THOMAS	T	88-NA-316		MATUSZKO
UNIV OF IOWA	SHREEVE		JEANNE	M	88-MC-255	A	TANGNEY
UNIV OF ILLINOIS	ANDERSEN		GEORGE		88-NL-315	A	HARTOS
	CHUDNOVSKY		ALEXANDER		88-NA-299	A	IRKAN
	KRIER		HERMAN		88-NA-325		BIRKAN
	KUCK		DAVID	J	88-NA-355	A	NELSON
	MAZUMDER		JYOTIRMOY		88-NM-569	A	ROSENSTEIN
	MEDANIC		JUJAJ		88-ME-208	A	NACHMAN
	MOKKOC		HADIS		88-NA-326		WITT
	PERKINS		WILLIAM	R	88-ME-242	A	MILLER
	SAREH		AMHD	H	88-NM-532		THOMAS
	SHABANA		AMHD	A	88-NM-533		THOMAS
	TREHARY		MICHAEL		88-NM-549		NACHMAN
UNIV OF IOWA	WIECKOWSKI		ANDRZEJ		88-MC-283	A	BURGGRAB
UNIV OF KANSAS	KLEISER		PAUL	D	88-MC-231		WILKES
	SYERS		RALPH		88-MC-239		MODARCZYK
	GARWIN		DAVID		88-NM-503		CROWLEY
UNIV OF LOWELL	JONES		LEE	K	88-NA-364		WU
UNIV OF MARYLAND	ALEXANDER		MILLARD		88-NM-483		WOODRUFF
	CHEN		HSING-MEN		88-MC-264	A	DAVIS
	ELMAN		HOWARD	C	88-ME-213	A	GILES
	KRISHNAPRASAD		P	S	88-NM-467		NACHMAN
	KUMAR		K	S	88-NM-477		NACHMAN
	ROSENFELD		AZRIEL		88-NM-552	A	CROWLEY
	ROUSSOPOULOS		NICK	S	88-NM-558	A	CROWLEY
	GREENBERG		JAMES		88-NL-300		CERVEY
UNIV OF MARYLAND BALTIMORE COUNTY	OTTINO		J	M	88-NM-496	A	WAKSMAN
UNIV OF MASSACHUSETTS	RICE		DAVID	M	88-NM-559	A	WAKSMAN
	CHEN		I-WEI	M	88-NM-574	A	NACHMAN
UNIV OF MICHIGAN	HILL		BRUCE	M	88-NA-337	A	MCMICHAEL
	JAIN		RAMESH	C	88-NC-289	A	ULRICH
	BIEDERMAN		IRVING		88-ME-207	A	SCHIOLEK
	CAHLBERG		EARL	D	88-NM-557	A	WOODRUFF
					88-NM-546	A	WAKSMAN
					88-NL-283	A	TANGNEY
					88-ME-212	A	WEINSTOCK

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UNIV OF MISSOURI	ROSEN	J.			88-NM-472	A	MILLER
	SASU	ASIT		B	88-NM-561		WOODRUFF
	HOLMES	TIMOTHY		P	88-NM-502		NACHMAN
	WILLIAMS	FRAZER		J	88-NP-169	A	SMITH
	SINGH	SAMJENDRA		N	88-NM-564		CROWLEY
UNIV OF NEBRASKA	BRUECK	S		R	88-NP-203	A	SCHLOSSBER
	JU	FREDERICK		D	88-NA-296		WU
	SCHAMILOGU	EDL			88-NP-222		BARKER
	AUSLANDER	LOUIS			88-NM-523	A	NACHMAN
	BAKER	CHARLES		R	88-NM-471		WOODRUFF
UNIV OF NORTH CAROLINA	MCNEIL	LAURIE		E	88-NE-230		WITT
	NEHOUSE	SHELDON		E	88-NM-516	A	NACHMAN
	MARCHAND	ALAN		P	88-NC-287	A	HATUSZKO
	NEUBERGER	JOHN		W	88-NM-528	D	NELSON
	DON	JOHN		D	88-NE-200	A	MALLOY
UNIV OF NOTRE DAME	LENT	CRAIG		S	88-NE-243		LITTON
	LIU	RUEY-NEN			88-NM-550		CROWLEY
	LEEMIS	LAWRENCE		S	88-NM-505		WOODRUFF
	PULAT	P.			88-NM-541	A	WOODRUFF
	CRASEMANN	BERND			88-NP-153		KELLEY
UNIV OF OREGON	GERNSBACHER	MORTON		A	88-NL-267		FREGLY
	HASHIM	ZVI			88-NA-331		MAKITOS
	MINTZ	MAX			88-NM-579		WOODRUFF
	STERNBERG	SAUL			88-NL-279		WOODRUFF
	BERGER	THEODORE		W	88-NL-289	A	FREGLY
UNIV OF PENNSYLVANIA	GOLDE	MICHAEL		F	88-NC-221		BERRY
	YATES	JOHN		T	88-NC-229		WOODRUFF
	YATES JR.	JOHN		T	88-NC-226		BURGGRAF
	CRUZ-EMERIC	JORGE		A	88-NM-505	A	WOODRUFF
	SUNDAPARAJAN	VISVANATHA		R	88-NA-352	A	WU
UNIV OF PUERTO RICO	ZATOI	BAGAR			88-NL-280		CERVENY
	GOMEZ-RIDRIGUEZ	MANUEL			88-NE-247		LITTON
	KENNEDY	JOSEPH		P	88-NC-272		ULRICH
	EBERLY	JOSEPH		H	88-NP-196		KELLEY
	MELISSINDS	A.		C	88-NP-173	A	BARKER
UNIV OF SHERFIELD	SMITHENBANK	ADRIAN		C	88-NP-211	A	BARKER
	BRUN	JOSHUA		H	88-NA-330	D	TISHKOFF
	ENGLE	CHARLES		W	88-NL-316	A	TANGNEY
	DJEU	RANDALL		S	88-NL-269		FREGLY
	REED	NICHOLAS			88-NP-181		SCHLOSSBER
UNIV OF SOUTH ALABAMA	GUNDERSON	IRVING		S	88-NM-490		MILLER
	MANN	MARTIN		C	88-NP-223		SMITH
	WASRI	WILLIAM		F	88-NM-543	A	WAKSMAN
	NEVATIA	SAMI		F	88-NA-332		AMJS
	SANCHUK	RAMAKANT		A	88-NM-540		WAKSMAN
UNIV OF SOUTH CAROLINA	SRITHARAN	ALEXANDER		S	88-NE-214	A	GILES
	WESER	S		P	88-NA-291		MCMICHAEL
	REED	WILLIAM		S	88-NC-278	A	HATUSZKO
		IRVING			88-NM-578		WOODRUFF

UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)

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UNIV OF TENNESSEE	WIGLER	PAUL		M	88-NL-299		CERVENY
	ANDERSON	DALE		A	88-NA-315		SAKELL
UNIV OF TEXAS	CAREY	GRAHAM		F	88-NA-301		SAKELL
	DEWAR	MICHAEL J. S.		S	88-NC-222	A	MATUSZKO
	DOLLING	DAVID		C	89-NA-360	A	SAKELL
	DONNER	MICHAEL			88-NE-221		WITT
					88-NE-224	A	WITT
	HUNT	LOUIS		R	88-NM-519		CROWLEY
	LAGOW	RICHARD		J	88-NC-257	A	MATUSZKO
	POWERS	EDWARD		J	88-NE-203		WITT
	REICHL	L.		E	88-NM-539		NACHMAN
	SENSEMAN	DAVID		M	88-NL-313	A	BERRY
	MOORE	LEE		E	88-NL-274		BERRY
UNIV OF TEXAS MEDICAL BRANCH	WOODWARD	DONALD		J	88-NL-318	A	BERRY
UNIV OF TEXAS SW MEDICAL CTR AT DALLAS	MATHEWS	V.		J	88-NM-554		WOODRUFF
UNIV OF UTAH	SYMKO	OREST		G	88-NE-217	A	WEINSTOCK
	WIGHT	CHARLES		A	88-NC-280	A	WODARCZYK
UNIV OF VIRGINIA	GALLAGHER	THOMAS		F	88-NP-154	A	KELLEY
	PROFFITT	DENNIS		R	88-NL-268		FREGLY
UNIV OF WASHINGTON	LAMINE	RICHARD		M	88-NC-240		ULRICH
	OLSEN	LARRY		C	88-NP-167		SMITH
	PALMER	JOHN			88-NL-307		TANGNEY
	ROEDER	CHARLES		W	88-NA-351	A	WU
	SNYDER	LARRY			88-NM-492	A	WAKSMAN
UNIV OF WATERLOO	HEPBURN	JOHN		W	88-NC-242		WODARCZYK
UNIV OF WESTERN ONTARIO	MITCHELL	J. BRIAN		A	88-NP-188		SMITH
UNIV OF WISCONSIN	BARNISH	B. ROSS			88-NM-489		CROWLEY
	HANGASARIAN	OLVI		L	88-NM-553		HOLLAND
	MORIMAN	J.		E	88-NE-202	A	WEINSTOCK
	ROBINSON	STEPHEN		M	88-NM-513	A	MILLER
	VEEN	BARRY		V	88-NM-509		WOODRUFF
	WEISSHAAR	JAMES		C	88-NC-244		WODARCZYK
UNIVERSITY OF ALABAMA	METZGER	ROBERT		M	88-NC-252		ULRICH
UTAH STATE UNIVERSITY	BERKEY	FRANK		T	88-NC-276	A	STOBIE
VANDERBILT UNIVERSITY	LAPPIN	JOSEPH		S	88-NL-282		TANGNEY
VARIAN ASSOCIATES	SOGARD	MICHAEL			88-NP-218		SCHLCSSEER
VIRGINIA POLYTECHNIC INST & STATE UNIV	BAUMANN	WILLIAM		T	88-NM-551		CROWLEY
	LIBRESCU	LIVIU			88-NA-310		NACHMAN
WASHINGTON UNIVERSITY	KATZ	I NORMAN		A	88-NM-514	A	NACHMAN
WAYNE STATE UNIVERSITY	IBRAHIM	R			88-NA-287	A	AMOS
WESTINGHOUSE ELECTRIC CORPORATION	BARTKO	JOHN		M	89-NP-185		SMITH
WRIGHT STATE UNIVERSITY	SERVE	PAUL		K	88-NL-301		CERVENY
	SHAW	ARNAB			88-NM-530		WOODRUFF
	WEISS	ISAAC		Y	88-NE-206	A	ROSENSTEIN
Y. YU ASSOCIATES	YU	Y			88-NA-340		WU
YALE UNIVERSITY	PERLIS	ALAN			88-NE-229		GILES
	ROSNER	DANIEL		E	88-NA-329	A	TISHKOFF
	SREENIVASAN	K		R	88-NA-302	A	MCNICHAE
		KATEPALLI		R	88-NA-345	A	MCNICHAE

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INSTITUTION

LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
STERNBERG	ROBERT	J	88-ML-304		FREGLY

PART II

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
VIBRATION DYNAMICS AND CONTROL OF SLADED DISK ASSEMBLIES PURDUE RESEARCH FOUNDATION	MMOKAM	N 24 11/07/88 \$124,049	A AMOS 88-NA-284	\$58,718 01/11/98 \$124,049
NON-ALGORITHMIC ISSUES IN AUTOMATED COMPUTATIONAL MECHANICS COMPUTATIONAL MECHANICS COMPANY INC	ODEN	N 24 11/07/88 \$290,058	A AMOS 88-NA-235	\$144,453 01/11/98 \$290,058
VIBRATION DYNAMICS & CONTROL OF BLADED DISK ASSEMBLIES INDIANA UNIVERSITY FOUNDATION	AFOLABI	N 24 12/07/88 \$48,012	A AMOS 88-NA-296	\$23,127 01/11/89 \$48,012
STABILITY OF NONLINEAR SYSTEMS WITH RANDOM COEFFICIENTS WAYNE STATE UNIVERSITY	IBRAHIM	N 12 12/07/88 \$89,700	A AMOS 88-NA-287	\$89,700 01/11/88 \$89,700
(PHASE II SRI) COMPOSITE EMBEDDED FIBER OPTIC SENSORS FOR ACTIVE CONTROL OF SPACE STRUCTURES DYNAMICS TECHNOLOGY INC	DUBE	N 36 15/07/88 \$500,720	AMOS 88-NA-294	
(SOI) LIGHTWEIGHT, LOW COST FLEXIBLE SENSORS/ACTUATORS FOR LARGE SPACE STRUCTURAL CONTROL CHRONOS RESEARCH LABS	BRUNO	N 06 27/07/88 \$49,906	A AMOS 88-NA-303	\$49,177 30/09/88 \$49,906
(SOI) ORDER "N" ALGORITHMS FOR MULTIBODY DYNAMICS SIMULATION PHOTON RESEARCH ASSOCIATES INC.	KEAT	N 06 27/07/88 \$49,515	A AMOS 89-NA-304	\$49,469 30/09/88 \$49,515
MODELING AND CONTROL OF LARGE FLEXIBLE VEHICLES IN SPACE STANFORD UNIVERSITY	ORYSON	R 12 05/08/83 \$50,000	A AMOS 88-NA-312	\$48,201 01/12/83 \$44,547
ANALYTICAL AND EXPERIMENTAL STUDIES OF INHERENTLY NONLINEAR COMPENSATORS UNIV OF SOUTHERN CALIFORNIA	MASRI	N 36 12/09/88 \$373,201	AMOS 89-NA-332	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SOI) ANALYSIS OF LARGE SPACE STRUCTURES II (COMPUTER IMPLEMENTATION OF THE DECO-POSITION METHOD) GENERAL ANALYTICS CORPORATION	ADONIAN	N 15 21/09/88 \$241,110	AMOS 89-NA-335	
ALGORITHMS FOR ROBUST IDENTIFICATION AND CONTROL OF LARGE SPACE STRUCTURES BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	CRROLL	N 24 21/09/88 \$500,009	AMOS 88-NA-336	
CONTROL STRUCTURE INTERACTION INSTRUMENTATION STATE UNIVERSITY OF NEW YORK	INMAN	N 12 28/09/88 \$44,923	A AMOS 89-NA-361	\$44,923 01/12/88 \$44,923
KINETIC STUDIES OF METAL COMBUSTION IN PROPULSION RENSSELAER POLYTECHNIC INSTITUTE	FONTIJN	R 36 20/07/88 \$429,535	A BIRKAN 88-NA-298	\$198,204 01/12/88 \$299,175
PLASMA INITIATION MECHANISMS FOR CW LASER PROPULSION UNIV OF ILLINOIS	KRIER	R 24 24/08/88 \$240,255	BIRKAN 89-NA-325	
INVESTIGATION OF ENERGY EXCHANGE MECHANISMS BETWEEN THE MEAN AND ACOUSTIC FLOW FIELDS IN SOLID ROCKET COMBUSTION CHAMBERS NAVAL RESEARCH LABORATORY	BAUM	N 24 21/09/88 \$200,000	A BIRKAN 88-NA-333	\$100,000 01/10/98 \$200,000
(COURIP)-LASER DIAGNOSTICS OF PLASMA THRUSTERS OHIO STATE UNIVERSITY	YORK	N 12 26/09/88 \$98,430	A BIRKAN 88-NA-354	\$83,430 01/12/88 \$83,430
(COURIP)- INFRARED IMAGING INSTRUMENT FOR EFFICIENCY/THRUST MEASUREMENTS FOR LASER PROPULSION UNIV OF ILLINOIS	KRIER	N 12 26/09/88 \$134,900	A BIRKAN 88-NA-355	\$79,900 01/12/98 \$79,900
ANISOTROPIC BEHAVIOR OF SOILS AND PRESSUREMETER TEST PURDUE RESEARCH FOUNDATION	CHAMEAU	N 24 22/09/88 \$158,885	BOYCE 88-NA-341	
(COURIP) TESTING AND DATA ACQUISITION/CONTROL EQUIPMENT FOR SOIL DYNAMICS AND GEOTECHNICAL CENTRIFUGE LABORATORY RENSSELAER POLYTECHNIC INSTITUTE	DOBRY	N 12 23/09/88 \$53,000	A BOYCE 88-NA-350	\$53,000 01/12/88 \$53,000

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THEORETICAL AND EXPERIMENTAL STUDIES OF MICROSTRUCTURAL PROCESSES RELATED TO INELASTIC STRESS-STRAIN BEHAVIOR OF CONESIVE SOILS JOHNS HOPKINS UNIVERSITY	ANANDARAJAH A	N 36 29/09/88 \$291,211	BOYCE 88-NA-365	
A DISLOCATION MECHANICS APPROACH TO PIEZOCONE PENETRATION IN LAYERED MEDIA PENNSYLVANIA STATE UNIVERSITY	ELSWORTH DEREK	N 24 29/09/88 \$92,208	BOYCE 88-NA-366	
THE OVERALL RESPONSE OF COMPOSITE MATERIALS UNDERGOING LARGE ELASTIC DEFORMATIONS JOHNS HOPKINS UNIVERSITY	PONTE-CASTANEDA PEDRO	N 36 12/07/88 \$166,097	HARITOS 88-NA-288	
MICROMECHANICS OF FATIGUE ECOLE NATIONALE SUPERIEURE	LEMAITRE JEAN	N 36 19/07/88 \$137,000	HARITOS 89-NA-297	
THEORETICAL AND EXPERIMENTAL STUDIES ON THE FOUNDATION OF MESOMECHANICS UNIV OF ILLINOIS	CHUDNOVSKY ALEXANDER	R 36 25/07/88 \$399,314	A HARITOS 88-NA-299	\$125,428 15/12/83 \$399,314
A CONTINUUM DAMAGE MODEL FOR COMPOSITE MATERIALS TEXAS A AND M RESEARCH FOUNDATION	WEITSMAN Y	N 35 05/08/88 \$310,932	HARITOS 89-NA-320	
UNDERSTANDING THE RANDOM NATURE OF FATIGUE CRACK GROWTH UNIV OF ARIZONA	ORTIZ KEITH	N 36 22/08/88 \$272,520	HARITOS 88-NA-323	
COMPOSITE MATERIALS INTERFACE MECHANICS UNIV OF PENNSYLVANIA	HASHIN ZVI	N 24 06/09/88 \$330,569	HARITOS 88-NA-331	
(DURIP) ON-LINE QUANTITATIVE NONDESTRUCTIVE EVALUATION AND CHARACTERIZATION OF TOUGH CERAMICS AT OPERATING TEMPERATURES TEXAS A AND M UNIVERSITY	CHRISTIAN	N 12 30/09/88 \$70,000	A HARITOS 88-NA-367	\$70,000 01/12/88 \$70,000

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INSTRUMENTATION FOR RESEARCH ON DEFORMATION AND FRACTURE OF HIGH TEMPERATURE, HIGH PERFORMANCE COMPOSITE MATERIALS TEXAS ENGINEERING EXPERIMENT CENTER	SCHAPERY	N 12 30/09/88 \$61,619	A MARITOS 88-NA-369	\$61,619 01/12/88 \$61,619
COURIP)-MIS HIGH TEMPERATURE TESTING DREXEL UNIVERSITY	WANG	N 12 30/09/88 \$75,585	A MARITOS 88-NA-371	\$75,585 01/12/88 \$75,585
EFFECT OF ENDWALL COLD AIR EJECTION ON SECONDARY FLOWS AND HEAT TRANSFER IN A CURVED DUCT PENNSYLVANIA STATE UNIVERSITY	CAMCI	N 36 12/07/88 \$358,342	MELIN 88-NA-292	
THE EFFECTS OF FREE STREAM TURBULENCE AND SURFACE CURVATURE ON BOUNDARY LAYER FLOW AND HEAT TRANSFER STANFORD UNIVERSITY	JOHNSTON	N 24 01/08/88 \$460,000	A MELIN 89-NA-306	\$225,000 01/01/89 \$460,000
UNSTEADY AERODYNAMICS WITH APPLICATIONS TO FLIGHT MECHANICS STANFORD UNIVERSITY	ASHLEY	R 12 22/09/88 \$65,000	MELIN 89-NA-342	
STUDIES IN NON-LINEAR UNSTEADY AERODYNAMICS GEORGIA INSTITUTE OF TECH	WU	R 24 22/09/89 \$269,475	MELIN 88-NA-343	
(COURIP) PROPOSAL TO ACQUIRE IRIS-40/70GT WORKSTATION UNDER DOD LEHIGH UNIVERSITY	WALKER	N 12 23/09/83 \$46,748	A MELIN 88-NA-349	\$46,748 01/12/88 \$45,749
OPTIMAL CONTROL OF VISCOUS JETS 7 CHANNEL FLOWS UNIV OF SOUTHERN CALIFORNIA	SRITHARAN	N 24 12/07/88 \$171,174	MCMICHAEL 83-NA-291	
TURBULENCE AND TURBULENCE CONTROL YALE UNIVERSITY	SREENIVASAN	R 24 26/07/88 \$248,655	A MCMICHAEL 88-NA-302	\$126,988 15/12/88 \$249,555
STRUCTURE AND CONTROL OF THE WALL REGION IN A TURBULENT BOUNDARY LAYER CORNELL UNIVERSITY	LUMLEY	N 36 11/08/88 \$818,772	A MCMICHAEL 88-NA-321	\$251,817 15/01/89 \$818,772

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COMPUTATION OF TRANSITION IN THE VICINITY OF A WALL STANFORD UNIVERSITY	PERZIGER JOEL	N 36 01/09/88 \$229,190	MCMICHAEL 89-NA-327	
ON THE FEASIBILITY OF THE REDUCTION OF SKIN FRICTION DRAG IN AIR BY INJECTION OF GASES OF SMALLER DENSITY INTO THE BUFFER REGION PENNSYLVANIA STATE UNIVERSITY	DEUTSCH STEVEN	N 12 01/09/88 \$93,148	MCMICHAEL 88-NA-328	
LAGRANGIAN TURBULENCE: STRUCTURES AND MIXING ADMISSIBLE MODEL FLUWS UNIV OF MASSACHUSETTS	OTTINO J	R 24 22/09/88 \$176,325	A MCMICHAEL 88-NA-337	\$89,537 15/01/89 \$176,325
(OUIRP) TWO AND THREE DIMENSIONAL IMAGING OF TURBULENT AND UNSTEADY FLOWS YALE UNIVERSITY	GREENIVASAN KATEPALLI	N 12 22/09/88 \$122,358	A MCMICHAEL 88-NA-345	\$122,358 01/12/88 \$122,358
(OUIRP) DEVELOPMENT OF A POSTPROCESSING AND 3D GRAPHICAL IMAGING FACILITY PENNSYLVANIA STATE UNIVERSITY	BRASSEUR JAMES	N 12 22/09/88 \$71,393	A MCMICHAEL 88-NA-346	\$71,393 01/12/88 \$71,393
(OUIRP) RESEARCH INSTRUMENTATION FOR TURBULENT SHEAR FLOW CONTROL STUDIES MICHIGAN STATE UNIVERSITY	FALCO ROBERT	N 12 22/09/88 \$101,155	A MCMICHAEL 88-NA-347	\$101,155 01/12/88 \$101,155
CONTROL OF TRANSITIONAL AND VARIABLE DENSITY FLOWS STANFORD UNIVERSITY	CANTWELL BRIAN	N 35 30/09/88 \$320,374	MCMICHAEL 88-NA-368	
CONTROL OF TURBULENCE BY FLOW BIFURCATION NIELSEN ENGINEERING AND RESEARCH CO	NIXON DAVID	N 36 30/09/88 \$267,408	MCMICHAEL 88-NA-370	
ON THE ORIGIN AND CONTROL OF LARGE COHERENT STRUCTURES IN TURBULENT SHEAR FLOWS TEL-AVIV UNIVERSITY	WYGNANSKI ISRAEL	N 12 30/09/88 \$154,083	MCMICHAEL 88-NA-372	

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TURBULENT SPOT GENERATION AND GROWTH RATES IN A TRANSONIC BOUNDARY LAYER OXFORD UNIVERSITY	JONES	N 36 30/09/88 \$258,164	MCMICHAEL 88-NA-373	
FEEDBACK STABILIZATION OF HYDRODYNAMIC INSTABILITIES CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	GASTER	N 24 30/09/88 \$22,531	MCMICHAEL 88-NA-374	
A STUDY OF THE STRUCTURE OF A TURBULENT BOUNDARY LAYER THROUGH SURFACE ROUGHNESS CHANGES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	HARITONIDIS	N 24 30/09/88 \$369,743	MCMICHAEL 89-NA-375	
EFFECTS OF EXTERNAL FORCING ON ENTRAINMENT RATIO AND FLUID COMPOSITION IN TURBULENT SHEAR LAYERS MICHIGAN STATE UNIVERSITY	MANDOUCHEHE	R 12 30/09/88 \$56,850	MCMICHAEL 88-NA-376	
AEROTHERMELASTIC STABILITY ANALYSIS OF AERONAUTICAL STRUCTURAL COMPONENTS VIRGINIA POLYTECHNIC INST & STATE UNIV	LIBRESCU	N 36 03/08/88 \$259,399	NACHMAN 88-NA-310	
(SBR PHASE II) ATTACHMENT 1 ADMITTANCE MODELING OF SPACE STRUCTURES WIT ACTIVE CONTROLS CSA ENGINEERING, INC.	SMITH	N 06 05/08/88 \$48,518	NACHMAN 89-NA-313	
DEVELOPMENT OF SPACE-TIME FINITE ELEMENTS FOR NONLINEAR TRANSIENT RESPONSE OF FLEXIBLE STRUCTURES GEORGIA TECH RESEARCH CORPORATION	HODGES	N 36 05/08/88 \$276,779	NACHMAN 88-NA-314	
DYNAMIC RESPONSE OF STRUCTURAL COMPONENTS GEORGIA TECH RESEARCH CORPORATION	WEMPNER	N 24 05/08/88 \$122,153	NACHMAN 89-NA-317	
STUDIES ON CONTROL NONLINEAR DYNAMICS AND MODELING PROBLEMS GEORGIA TECH RESEARCH CORPORATION	ATLURI	N 36 05/08/88 \$297,885	NACHMAN 88-NA-318	
CONSTITUTIVE LAWS & ANALYSIS FOR NONISOTHERMAL LARGE STRAIN ELASTOVISCOPLASTIC BEHAVIOR OF LAMINATED COMPOSITES GEORGIA TECH RESEARCH CORPORATION	SIMITSES	N 12 05/03/93 \$93,096	NACHMAN 88-NA-319	

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CRAY II SUPPORT FOR AFOSR INSTRUMENTS AIR FORCE WEAPONS LAB	BURNETTE HOWARD	N 12 23/08/88 \$20,000	A NACHMAN 88-NA-324	\$20,000 01/10/89 \$20,000
DECENTRALIZED ACTIVE STRUCTURE CONTROL USING FROBENIUS-MANDEL NORM UNIV OF ILLINOIS	MEDANIC JUAJ	N 36 25/08/88 \$388,109	NACHMAN 88-NA-326	
COMPUTATIONAL FLUID DYNAMICS (CFD): A FINITE ELEMENT SCHEME FOR PARALLEL-VECTOR COMPUTERS UNIV OF TEXAS	CAREY GRAHAM	N 24 26/07/88 \$122,363	SAKELL 88-NA-301	
ADAPTIVE GRID GENERATION FOR STRUCTURED AND UNSTRUCTURED MESHES UNIV OF TEXAS	ANDERSON DALE	R 24 05/08/88 \$255,253	SAKELL 88-NA-315	\$55,704 01/01/89 \$252,377
DIRECT NUMERICAL SIMULATION OF SHOCK TURBULENCE INTERACTION STANFORD UNIVERSITY	MOJIN PARVIZ	N 36 17/08/88 \$252,377	A SAKELL 88-NA-322	
INVESTIGATIONS OF THE MOTION OF DISCRETE-VELOCITY GASES CALIFORNIA INSTITUTE OF TECHNOLOGY	STURTEVANT BRADFORD	R 24 22/09/88 \$266,885	SAKELL 88-NA-319	
(QURIP) INVESTIGATION OF SUPERSONIC BOUNDARY LAYER TRANSITION AND TURBULENT STRUCTURE PRINCETON UNIVERSITY	SMITS ALEXANDER	N 12 23/09/88 \$52,000	A SAKELL 88-NA-348	\$50,000 01/12/89 \$50,000
(QURIP) OPTICAL EQUIPMENT FOR HIGH-SPEED VISCOUS-INVISCID INTERACTION RESEARCH PENNSYLVANIA STATE UNIVERSITY	SETTLES GARY	N 12 23/09/88 \$68,718	A SAKELL 88-NA-353	\$59,718 01/12/88 \$69,718
SWEPT SHOCK WAVE/BOUNDARY LAYER INTERACTIONS PENNSYLVANIA STATE UNIVERSITY	SETTLES GARY	R 24 26/09/88 \$199,958	A SAKELL 89-VA-358	\$99,988 01/04/89 \$199,958

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EFFECTS OF SWEEP ON THE PHYSICS OF UNSTEADY SHOCK-INDUCED TURBULENT SEPARATED FLOWS UNIV OF TEXAS	DOLLING	R 24 27/09/88 \$149,962	A SAKELL 88-NA-360	\$73,261 01/03/89 \$149,962
A SYSTEMATIC APPROACH TO COMBUSTION MODEL REDUCTION AND LUMPING PRINCETON UNIVERSITY	RABITZ	R 24 28/07/88 \$278,000	A TISHKOFF 89-NA-305	\$135,000 01/12/88 \$278,000
COMBUSTION ENHANCEMENT BY HIGH ENERGY ELECTRON IMPACT NATIONAL SCIENCE FOUNDATION	GOULDARD	N 24 03/08/88 \$120,000	A TISHKOFF 88-NA-309	\$60,000 01/10/88 \$120,000
INVESTIGATIONS OF THE APPLICATIONS OF LASER INDUCED EXCIPLEX FLUORESCENCE TO FUEL SPRAY AND SINGLE DROPLET VAPORIZATION ARMY RESEARCH OFFICE	MANN	N 24 04/08/88 \$179,000	A TISHKOFF 88-NA-311	\$89,000 01/10/88 \$179,000
TRANSPORT PHENOMENA AND INTERFACIAL KINETICS IN MULTIPHASE COMBUSTION SYSTEMS YALE UNIVERSITY	ROSNER	N 24 01/09/88 \$286,000	A TISHKOFF 88-NA-320	\$140,000 01/01/89 \$235,000
DEVELOPMENT OF MULTI-POINT LASER DOPPLER ANEMOMETRY FOR HIGH SPEED FLOWS UNIV OF SHEFFIELD	SWITHENBANK	N 12 01/09/88 \$106,142	D TISHKOFF 88-NA-330	
A PROPOSAL FOR RESEARCH ON MIXING CONTROL IN A SUPERSONIC SHEAR LAYER OFFICE OF NAVAL RESEARCH	LEKOUDIS	N 24 22/09/88 \$100,000	A TISHKOFF 88-NA-344	\$50,000 01/10/88 \$100,000
(COURIP)-SPONTANEOUS RAMAN SYSTEM FOR THE STUDY OF ENHANCED COMBUSTION AND NON-THERMAL PLASMAS OREGON STATE UNIVERSITY	PETERSOV	N 12 26/09/88 \$91,100	A TISHKOFF 88-NA-356	\$91,100 01/12/89 \$91,100
(COURIP)-TWO-DIMENSIONAL VELOCITY MEASUREMENTS IN TURBULENT REACTING FLOWS PENNSYLVANIA STATE UNIVERSITY	SANTAVICCA	N 12 26/09/88 \$55,170	A TISHKOFF 89-NA-357	\$55,170 01/12/88 \$55,170
(COURIP)-SPECIES AND TEMPERATURE MEASUREMENTS IN FUEL RICH COMBUSTION REGIONS PENNSYLVANIA STATE UNIVERSITY	SANTOPC	N 12 26/09/88 \$52,320	A TISHKOFF 88-NA-359	\$52,320 01/12/88 \$52,320

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THE HYSTERESIS AND INCREMENTAL COLLAPSE OF COMPLEX STRUCTURES: A PARADIGM FOR THE FATIGUE FAILURE OF MATERIALS ILLINOIS INSTITUTE OF TECHNOLOGY	A GURALNICK SIDNEY	N 24 12/07/88 \$135,906	A WU 89-NA-239	\$31,332 03/01/89 \$185,907
A STATISTICAL PHYSICS ANALYSIS OF ROCK AND CONCRETE DAMAGE RESPONSE SOREQ	R ENGLMAN	N 36 12/07/88 \$320,680	WU 88-NA-290	
BRITTLE-DUCTILE FAILURE MECHANICS OF MORTAR AND CONCRETE UNIV OF COLORADO	STURE STEIN	N 24 14/07/88 \$252,570	WU 88-NA-293	
NEW APPROACH TO ANALYSIS OF PAVEMENT DISTRESS ILLINOIS INSTITUTE OF TECHNOLOGY	S SAXENA	N 24 18/07/88 \$185,176	WU 88-NA-295	
STRUCTURAL THEORIES OF POST-DAMAGE ASSESSMENT (SECOND-LEVEL OF DAMAGE THEORIES) UNIV OF NEW MEXICO	FREDERICK JU	N 36 18/07/88 \$391,056	WU 93-YA-297	
APPLICATION OF HYPERELASTICITY THEORY AND INVARIANTS TO DEFORMATIONS TROGLODYTE SOCIETY, INC.	FRANCIS COUNCIL	N 12 01/08/88 \$110,793	WU 83-NA-307	
CONCRETE MATERIALS EXPOSED TO HIGH STRAIN RATE LOADING SINTEF (SELSKAPET FOR INDUSTRIELL OG...)	MAGNE MAAGE	N 36 02/08/88 \$600,000	WU 88-NA-308	
MICROCRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY POINT UNIV OF HOUSTON	THOMAS MSU	N 36 05/03/88 \$365,090	WU 88-NA-316	
DYNAMICS AND DAMPING OF LAYERED PLATES AND SHELLS Y. Y. YU ASSOCIATES	Y YU	N 36 22/09/88 \$140,520	WU 88-NA-360	

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(COURIP) INSTRUMENTATION FOR DATA ACQUISITION AND CONTROL OF STRUCTURAL EXPERIMENTS UNIV OF WASHINGTON	ROEDER	N 12 23/09/88 \$76,560	A WU 88-NA-351	\$75,560 01/12/88 \$76,560
(COURIP) RESEARCH INSTRUMENTATION FOR NONLINEAR MODAL ANALYSIS UNIV OF PUERTO RICO	SUNDARARAJAN	N 12 23/09/88 \$55,620	A WU 88-NA-352	\$55,620 01/12/88 \$55,620
ADVANCED CIVIL ENGINEERING MATERIALS BASED ON INORGANIC POLYMERS PENNSYLVANIA STATE UNIVERSITY	BROWN	N 36 28/09/88 \$442,943	WU 89-NA-352	
STRUCTURAL OPTIMIZATION OF SANDWICH COMPOSITE SHELLS TO VARIOUS LOADINGS UNIV OF DELAWARE	VINSON	N 24 28/09/88 \$134,138	WU 88-NA-363	
SUBMICROSCOPIC DEFORMATION OF CEMENT PASTE AND MORTAR UNIV OF KANSAS	DARWIN	N 36 28/09/88 \$256,499	WU 89-NA-354	
	CHARLES			
	VISVANATHA			
	PAUL			
	JACK			
	DAVID			

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THE SYNTHESIS AND CHARACTERIZATION OF TRIBOPHYSICAL LAYERS ON DIAMOND AND SILICON CARBIDE SURFACES UNIV OF PITTSBURGH	YATES JR.	N 12 18/07/88 \$507,309	BURGGRAF 88-NC-226	
THE EFFECTS OF MOLECULAR ORIENTATION GEOMETRY AND SURFACE ANISOTR OPY UPON ETCHING UNIV OF CALIFORNIA	KUNDEL ANDREW	N 12 18/07/88 \$145,607	BURGGRAF 88-NC-227	
THE ORIENTATION OF CHEMICAL BONDS AT SURFACES - STUDIES OF STRUCTURE AND DYNAMICS IN THE MONOLAYER UNIV OF PITTSBURGH	YATES JOHN	R 12 19/07/88 \$123,137	BURGGRAF 88-NC-229	
SURFACE CHEMISTRY USING RADICAL BEAMS UNIV OF COLORADO	ELLISON G. BARNEY	N 12 25/07/88 \$144,955	BURGGRAF 88-NC-234	
FUNDAMENTAL MECHANISMS OF TRIBOCHEMICAL LUBRICATION STEVENS INSTITUTE OF TECHNOLOGY	FISCHER TRAUGOTT	N 12 15/09/88 \$340,362	BURGGRAF 88-NC-253	
SURFACE CHEMISTRY OF ELECTRONIC MATERIALS MECHANISMS OF GROWTH AND ETCHING PRINCETON UNIVERSITY	BERNASEK STEVEN	R 12 29/08/88 \$193,264	BURGGRAF 88-NC-254	
THEORETICAL STUDIES OF SLIDING FRICTION NORTHEASTERN UNIVERSITY	SOKOLOFF JEFFREY	N 12 02/09/88 \$63,901	D BURGGRAF 88-NC-258	
PUTTING THE ADHESION IN ADHESIVE BONDING TECHNOLOGY CASE WESTERN RESERVE UNIVERSITY	KOENIG JACK	N 12 12/09/88 \$234,784	BURGGRAF 89-NC-263	
SCANNING TUNNELING MICROSCOPY INVESTIGATIONS OF METAL DICHALCOGENIDE MATERIALS COLUMBIA UNIVERSITY	LIESER CHARLES	N 12 23/09/88 \$102,651	BURGGRAF 88-NC-274	

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MECHANISMS OF REACTIVE ETCHING PRINCETON UNIVERSITY	BERNASEK STEVEN	R 6 27/09/88 \$65,000	A BURGGRAF 89-NC-279	\$65,000 01/01/89 \$65,000
DURIP SCANNING TUNNELING MICROSCOPE FOR BCROX SURFACE STUDIES UNIV OF ILLINOIS	TRENNARY MICHAEL	N 12 28/09/88 \$49,000	A BURGGRAF 88-NC-283	\$49,000 01/12/88 \$49,000
DURIP INSTRUMENTATION FOR SURFACE REACTION DYNAMICS UNIV OF CHICAGO	SIEBENER STEVEN	N 12 28/09/88 \$68,900	A BURGGRAF 89-NC-284	\$68,900 01/12/88 \$68,900
STUDIES OF RESONANT ENHANCED MULTIPHOTON IONIZATION PROCESSES IN MOLECULES CALIFORNIA INSTITUTE OF TECHNOLOGY	MCKOY VINCENT	N 12 11/07/88 \$80,000	A DAVIS 88-NC-235	\$72,101 01/11/89 \$72,101
X-RAY DIFFRACTION STUDIES OF THE STRUCTURE OF ORDERED POLYMERS AND RELATED ELECTRO-ACTIVE MATERIALS UNIV OF DAYTON	FRATINI ALBERT	R 12 22/07/88 \$74,993	A DAVIS 89-NC-233	\$70,000 01/12/89 \$150,000
FUNDAMENTAL STUDY OF COMPRESSIVE STRENGTH DEVELOPMENT IN PAN-BASED CARBON FIBERS GEORGIA TECH RESEARCH CORPORATION	ASHIRAMAN A. S.	N 12 27/07/88 \$75,000	A DAVIS 89-NC-237	\$70,000 01/12/89 \$150,000
NONLINEAR OPTICAL PROPERTIES OF MAIN GROUP AND ORGANOMETALLIC COMPOUNDS NORTH DAKOTA STATE UNIVERSITY	PARKER WILEY	N 12 02/08/88 \$116,761	DAVIS 88-NC-247	
MICROSCOPIC MODELING OF TRIBOLOGICAL PHENOMENA GEORGIA TECH RESEARCH CORPORATION	LANDMAN UZI	N 12 05/08/88 \$113,998	DAVIS 88-NC-249	
COLLABORATIVE EXPERIMENTAL AND THEORETICAL STUDY OF THE PHOTODISSOCIATION AND REACTIONS OF THE AZIDE RADICAL UNIV OF MARYLAND	ALEXANDER MILLARD	N 12 14/09/88 \$2,000	A DAVIS 89-NC-264	\$2,000 01/10/88 \$2,000
THEORETICAL/EXPERIMENTAL INVESTIGATIONS OF THE STRUCTURE AND DYNAMICS OF HIGHLY ENERGETIC DICATION SPECIES UNIV OF COLORADO	ONEIL STEPHEN	N 12 14/09/88 \$2,000	A DAVIS 88-NC-265	\$2,000 01/10/89 \$2,000

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THEORETICAL STUDIES OF SILICON CHEMISTRY NORTH DAKOTA STATE UNIVERSITY	GORDON MARK	N 12 14/09/86 \$2,000	A DAVIS 89-NC-256	\$2,000 01/10/88 \$2,000
THEORETICAL STUDIES OF HOMOGENEOUS AND HETEROGENEOUS REACTIONS IN SILICON SYSTEMS OKLAHOMA STATE UNIVERSITY	THOMPSON DONALD	N 12 14/09/86 \$2,000	A DAVIS 88-NC-257	\$2,000 01/10/88 \$2,000
Oxidation, Nitridation and Fluorine Etching of Si UNIV OF CALIFORNIA	CARTER EMILY	N 12 14/09/88 \$2,000	A DAVIS 88-NC-268	\$2,000 01/10/88 \$2,000
STUDIES OF RESONANT ENHANCED MULTIPHOTON IONIZATION PROCESSES IN MOLECULES CALIFORNIA INSTITUTE OF TECHNOLOGY	MCKOY VINCENT	N 12 14/09/88 \$5,000	A DAVIS 88-NC-269	\$5,000 01/10/88 \$5,000
SOFTWARE MODIFICATION ON THE GAUSSIAN-86 COMPUTER CODE TO ALLOW IT TO SUCCESSFULLY RUN ON THE CRAY 2 AT AFML UNIV OF COLORADO	TAPPEN JOHN	N 12 15/09/88 \$10,000	A DAVIS 88-NC-271	\$10,000 01/10/88 \$10,000
RADAR STUDIES OF GLOBAL UPPER ATMOSPHERIC DENSITIES BOSTON UNIVERSITY	OLIVER, JR. WILLIAM	N 12 29/07/88 \$22,514	KOERNER 88-NC-241	
DEVELOPMENT OF PRACTICAL MO TECHNIQUES FOR PREDICTION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS UNIV OF TEXAS	DEMAR MICHAEL J. S.	R 12 11/07/88 \$166,663	A MATUSZKO 89-NC-222	\$166,663 01/11/88 \$499,389
SYNTHESIS AND REACTIVITY OF SILOXIDE AND SILANIDE COMPLEXES PERTAINING TO BOND BREAKING AND AGGREGATION PHENOMENA CORNELL UNIVERSITY	WOLCZANSKI PETER	R 12 11/07/88 \$99,773	A MATUSZKO 89-NC-223	\$90,000 01/11/88 \$270,000
AMIDE AND TETRAZENE COMPLEXES OF TRANSITION AND MAIN GROUP ELEMENT S AS PRECURSORS FOR THE LOW TEMPERATURE SYNTHESIS OF ELEMENTAL NIT UNIV OF CALIFORNIA	TRUGLER WILLIAM	N 12 25/07/88 \$143,545	MATUSZKO 88-NC-235	

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SICLOGICAL SYNTHESIS OF SUBSTITUTED O-AMINOPHENOLS GENERAL ELECTRIC CO	FINKBEINER HERMAN	R 12 02/08/88 \$96,860	A MATUSZKO 88-NC-245	\$86,955 01/11/89 \$94,860
TRANSITION METAL COMPLEXES WITH PERFLUORINATED LIGANDS DARTMOUTH COLLEGE	HUGHES RUSSELL	N 12 05/08/88 \$93,634	MATUSZKO 88-NC-250	
HIGHLY FLUORINATED NITROGEN-CONTAINING COMPOUNDS. NEW STABLE FLUIDS. UNIV OF IDAHO	SHREEVE JEANNE	R 12 31/08/88 \$90,000	A MATUSZKO 88-NC-255	\$90,000 01/12/88 \$90,000
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY: AN EMERGING TECHNOLOGY UNIV OF TEXAS	LAGOW RICHARD	R 12 02/09/88 \$119,763	A MATUSZKO 88-NC-257	\$110,000 01/12/88 \$110,000
DURIP PURCHASE OF A GAS CHROMATOGRAPH - MASS SPECTROMETER NORTH DAKOTA STATE UNIVERSITY	BOUDJOUK PHILIP	N 12 27/09/88 \$60,000	A MATUSZKO 88-NC-277	\$60,000 01/12/88 \$60,000
DURIP PREPARATIVE GEL PERMEATION CHROMATOGRAPHY UNIV OF SOUTHERN CALIFORNIA	WEBER WILLIAM	N 12 27/09/88 \$57,700	A MATUSZKO 88-NC-278	\$57,700 01/12/88 \$57,700
1999 GORDON RESEARCH CONFERENCE ON PHYSICS AND CHEMISTRY OF COATING S AND FILMS GORDON RESEARCH CONFERENCES INC	CRUICKSHANK ALEXANDER	N 12 29/09/88 \$5,250	D MATUSZKO 88-NC-285	
DURIP SYNTHESIS AND STUDY OF PRECERAMIC POLYMERS, CERAMIC PRECURSOR METAL SILICIDES, AND POLYMERS WITH UNIQUE OPTICAL AND ELECTRONIC UNIV OF CALIFORNIA	TILLEY TERRY DON	N 12 30/09/88 \$60,000	A MATUSZKO 88-NC-286	\$60,000 01/12/88 \$60,000
DURIP PURCHASE OF A 300 MHZ FT-NMR SPECTROMETER UNIV OF NORTH TEXAS	MARCHAND ALAN	N 12 30/09/88 \$50,000	A MATUSZKO 88-NC-287	\$50,000 01/12/88 \$50,000
DURIP INSTRUMENTATION SUPPORT FOR HIGH-LATITUDE ATMOSPHERIC RESEARCH AND THE ESTABLISHMENT OF A DUAL RADAR/DUAL FREQUENCY OBSERVATIONAL MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FOSTER JOHN	N 12 26/09/88 \$249,255	A STOBIE 88-NC-275	\$52,250 01/12/88 \$62,250

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DURIP APPLICATION OF MULTIPROCESSING TO REAL-TIME ANALYSIS AND CONTROL OF AN ATMOSPHERIC RESEARCH RADAR UTAH STATE UNIVERSITY	BERKEY FRANK	N 12 26/09/88 \$54,239	A STOBIE 88-NC-276	\$54,239 01/12/88 \$54,239
CHARACTERIZATION OF ORGANIC AND POLYMERIC THIN FILMS CONTAINING STRONGLY ABSORBING CHROMOPHORES IBM ALMADEN RESEARCH CENTER	SVALEN JEROME	N 12 11/07/88 \$93,044	ULRICH 88-NC-224	
TAILORED ORGANOMETALLIC POLYMERS UNIV OF WASHINGTON	LATNE RICHARD	N 12 29/07/88 \$185,000	ULRICH 88-NC-240	
A FAST, RADIATION HARD SCINTILLATING GEL-SILICA UNIV OF FLORIDA	WALKER JAMES	N 12 08/08/88 \$35,000	ULRICH 88-NC-251	
TOPICS IN MOLECULAR ELECTRONICS: ORGANIC FERROMAGNETS AND SUPER CONDUCTORS UNIVERSITY OF ALABAMA	METZGER ROBERT	N 12 09/08/88 \$216,096	ULRICH 89-NC-252	
NEW NON-LINEAR OPTICAL POLYMERS RENSELAER POLYTECHNIC INSTITUTE	WNEK GARY	R 12 01/09/88 \$116,028	ULRICH 88-NC-256	
PHYSICAL CHEMICAL STUDIES OF CONDUCTING POLYMERS: FUNDAMENTAL AND APPLIED UNIV OF CALIFORNIA	REISS HOWARD	N 12 06/09/88 \$252,713	ULRICH 88-NC-259	
1989 GORDON CONFERENCE ON POLYMERS (WEST) GORDON RESEARCH CONFERENCES INC	CRUICKSHANK ALEXANDER	N 12 09/09/88 \$7,400	D ULRICH 88-NC-260	
DEVELOPMENT OF ORGANIC NONLINEAR OPTICAL MATERIALS H.C.C., SCIENCE & TECHNOLOGY INC.	DEMARTINO RONALD	R 12 09/09/88 \$249,047	ULRICH 89-NC-261	

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ORDERED POLYMERS WITH NONLINEAR OPTICAL PROPERTIES				
ODN CHEMICAL CO	LYSENKO	N 12 12/09/88 \$488,869	ULRICH 88-NC-262	
1999 GORDON RESEARCH CONFERENCES ON POLYMERS				
UNIV OF RHODE ISLAND	KENNEDY	N 12 20/09/88 \$5,000	ULRICH 89-NC-272	
EURIP ADVANCED POLYMER SOLID STATE NMR INSTRUMENTATION				
UNIV OF MASSACHUSETTS	RICE	N 12 30/09/88 \$117,400	A ULRICH 88-NC-289	\$117,400 01/12/89 \$117,400
IONIC & MOLECULAR ENVIRONMENTS IN HETEROGENEOUS ELECTROCATALYSIS: STUDIES BY RADIOACTIVE LABELING & LEED/AUGER ELECTRON SPECTROSCOPY UNIV OF ILLINOIS	WIECKOWSKI	N 12 21/07/88 \$141,895	WILKES 88-NC-231	
ELECTROCHEMISTRY OF METAL SURFACES				
UNIV OF CINCINNATI	HUBBARD	N 12 04/08/88 \$192,842	WILKES 88-NC-248	
EUZIP ELECTROCHEMISTRY-SURFACE SPECTROSCOPY INSTRUMENT				
TEXAS A AND M UNIVERSITY	MARTIN	N 12 30/09/89 \$58,700	A WILKES 88-NC-283	\$58,700 01/12/89 \$58,700
SECOND INTERNATIONAL CONFERENCE ON CHEMICAL KINETICS				
NATIONAL BUREAU OF STANDARDS	HERRON	N 06 05/07/88 \$8,000	WODARCZYK 88-NC-219	
SPECTROSCOPIC STUDIES OF THE PRODUCTS OF THE REACTIONS OF ELECTRON ICALLY & VIBRATIONALLY-EXCITED SMALL MOLECULES UNIV OF PITTSBURGH	GOLDE	N 12 11/07/88 \$145,351	WODARCZYK 88-NC-221	
44TH MOLECULAR SPECTROSCOPY SYMPOSIUM				
OHIO STATE UNIV RESEARCH FOUNDATION	RAO	N 12 20/07/88 \$26,316	WODARCZYK 88-NC-230	
SPECTROSCOPY AND PHOTODISSOCIATION DYNAMICS OF NITROGEN OXIDE CLUSTERS UNIV OF COLORADO	VAIGA	N 12 21/07/88 \$232,944	WODARCZYK 89-NC-232	

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HIGH RESOLUTION SPECTROSCOPIC AND DYNAMICAL STUDIES OF ISOLATED ION-SOLVENT AND NEUTRAL HYDROGEN BONDED CLUSTERS CALIFORNIA INSTITUTE OF TECHNOLOGY	BLAKE GEOFFREY	N 12 27/07/88 \$68,160	WODARCZYK 88-VC-236	
SELECTING REACTIVITY, ULTRAFAST ENERGY TRANSFER AND THE DEVELOPMENT OF CHEMICALLY PUMPED VISIBLE LASERS GEORGIA TECH RESEARCH CORPORATION	GOLE JAMES	N 12 27/07/88 \$162,652	WODARCZYK 88-NC-238	
ALKALI DIATOMIC PHOTO-DISSOCIATION DYNAMICS UNIV OF IOWA	KLEIBER PAUL	N 12 28/07/88 \$190,700	WODARCZYK 88-NC-239	
AN EXPERIMENTAL DEMONSTRATION OF CONTROL OF PHOTOCHEMICAL REACTION S THROUGH COHERENT EXCITATION UNIV OF WATERLOO	HEPBURN JOHN	N 12 01/08/88 \$39,640	WODARCZYK 88-NC-242	
METEROGENEOUS KINETICS OF OX(1) GENERATION AERODYNE RESEARCH INC	WORSNOP DOUGLAS	N 12 02/08/88 \$86,789	WODARCZYK 88-NC-243	
GAS PHASE METAL ATOMS AND METAL MONOXIDES: KINETICS AND ELECTRONIC STRUCTURE UNIV OF WISCONSIN	WEISSHAAR JAMES	N 12 02/08/88 \$140,521	WODARCZYK 88-NC-244	
ENERGY TRANSFER STUDIES IN INTERHALOGEN MOLECULES PHYSICAL SCIENCES INC	DAVIS STEVEN	N 12 02/08/88 \$94,990	WODARCZYK 88-NC-246	
ION-IMAGING OF CHEMICAL REACTIONS UNIV OF CALIFORNIA	PARKER DAVID	N 12 14/09/88 \$112,576	WODARCZYK 88-NC-270	
ELECTRONICALLY EXCITED MOLECULES: REACTION KINETICS AND EMISSION OF LIGHT UNIV OF CALIFORNIA	PIMENTEL GEORGE	R 12 22/09/88 \$139,938	WODARCZYK 88-NC-273	

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DURIP FTIR STUDIES OF SOLID STATE REACTION DYNAMICS UNIV OF UTAH	WIGHT CHARLES	N 12 27/09/88 \$34,300	A WODARCZYK 88-NC-280	\$34,900 01/12/88 \$34,300
DURIP STATE-TO-STATE ION-MOLECULE REACTION DYNAMICS AT THERMAL ENERGIES STANFORD UNIVERSITY	ZARE RICHARD	N 12 27/09/88 \$85,000	A WODARCZYK 88-NC-281	\$85,000 01/12/88 \$85,000
DURIP THEORETICAL/EXPERIMENTAL INVESTIGATIONS OF HIGHLY ENERGETIC DIATION SPECIES UNIV OF COLORADO	LINEBERGER W. CARL	N 12 27/09/88 \$115,000	A WODARCZYK 88-NC-282	\$115,000 01/12/88 \$115,000

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NEURAL NETWORKS FOR DATA DETECTION IN DIGITAL COMMUNICATION RECEIVERS SOUTHERN METHODIST UNIVERSITY	GUPTA	N 24 13/07/88 \$205,034	GILES 88-NE-201	
CONNECTIONIST MODEL FOR INTELLIGENT COMPUTING UNIV OF MARYLAND	CHEN	N 12 10/08/88 \$40,000	A GILES 88-NE-213	\$40,000 01/12/88 \$40,000
RESEARCH INSTRUMENTATION FOR OPTICAL COMPUTING UNIV OF SOUTHERN CALIFORNIA	SAUCHUK	N 12 10/08/88 \$180,000	A GILES 88-NE-214	\$167,075 01/12/88 \$167,075
PRACTICAL ISSUES IN THE COMPLEXITY OF NEURAL NETWORKS PENNSYLVANIA STATE UNIVERSITY	PARGERRY	N 12 10/08/88 \$80,000	A GILES 88-NE-215	\$80,000 01/12/88 \$80,000
NEW NEURAL ALGORITHMS FOR SELF-ORGANIZED LEARNING YALE UNIVERSITY	PERLIS	N 36 25/08/88 \$429,485	GILES 88-NE-229	
ANALOG OPTICAL NEURAL NETS: A NOISE SENSITIVITY ANALYSIS BDM CORPORATION	ATHALE	N 12 26/08/88 \$322,210	GILES 88-NE-236	
A GENETIC ADAPTIVE SYSTEM FOR IMAGE UNDERSTANDING AND LEARNING RESEARCH INSTITUTE FOR STUDY OF INTELLIGENT SYS.	EISENHART	N 07 14/09/88 \$229,368	A GILES 88-NE-239	\$100,610 01/01/89 \$229,363
NEURAL NETS FOR SPEECH RECOGNITION LINCOLN LABORATORY/MIT	LIPPMANN	N 36 21/09/88 \$353,000	GILES 88-NE-244	
NEURAL NETWORKS WITH CONTROLLED TERMINAL ATTRACTORS JET PROPULSION LABORATORY	ZAK	N 24 23/09/88 \$201,000	GILES 88-NE-245	

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MOLECULAR BEAM EPITAXIAL GROWTH, CHARACTERIZATION, AND DEVICES OF MODULATED SEMICONDUCTOR STRUCTURES COLUMBIA UNIVERSITY	WANG	N 12 10/08/88 \$108,000	A LITTON 88-NE-211	\$108,000 01/12/88 \$103,000
THE EFFECTS OF MOLECULAR ORIENTATION GEOMETRY AND SURFACE ANISOTROPY UPON ETCHING UNIV OF CALIFORNIA	KUMMEL	N 36 25/08/88 \$412,220	LITTON 88-NE-228	
HIGH-SPEED VISUALIZATION OF ULTRA-SMALL SEMICONDUCTOR DEVICE SIMULATIONS UNIV OF NOTRE DAME	LENT	N 12 21/09/88 \$70,000	LITTON 88-NE-243	
AUGER ELECTRON SPECTROSCOPY, STUDIES FOR QUANTITATIVE DETERMINATION OF ATOMIC CONCENTRATIONS UNIV OF PUERTO RICO, RIO PIEDRAS	GOMEZ-RIDRIGUEZ	N 36 27/09/88 \$303,471	LITTON 88-NE-247	
LIGHT SCATTERING STUDIES OF SEMICONDUCTOR HETEROSTRUCTURE INTERFACES ARIZONA STATE UNIVERSITY	MENENDEZ	N 24 29/09/88 \$217,496	LITTON 88-NE-248	
VIBRATIONAL, MECHANICAL AND THERMAL PROPERTIES OF III-V SEMICONDUCTORS UNIV OF NOTRE DAME	DON	R 36 13/07/88 \$312,160	A MALLOY 89-NE-200	\$100,000 01/11/88 \$312,160
ADVANCED GAS PHASE REACTOR FOR GROWTH OF GE(X)SI(1-X) CARNEGIE-MELLON UNIVERSITY	GREVE	N 12 10/08/88 \$121,524	A MALLOY 89-NE-210	\$121,524 01/12/88 \$121,524
SIXTEENTH ANNUAL CONFERENCE ON THE PHYSICS AND CHEMISTRY OF SEMICONDUCTOR INTERFACES MONTANA STATE UNIVERSITY	LAPEYRE	N 12 25/08/88 \$8,400	A MALLOY 88-NE-227	\$8,400 01/10/88 \$8,400
MATERIAL ENGINEERING OF NOVEL SEMICONDUCTOR STRUCTURES FOR OPTICAL PROCESSING JOHNS HOPKINS UNIVERSITY	KHURGIN	N 36 15/09/88 \$382,735	MALLOY 88-NE-241	
HIGH TEMPERATURE DEFORMATION PROCESSES AND STRENGTHENING MECHANISMS IN INTERMETALLIC PARTICULATE COMPOSITES STANFORD UNIVERSITY	NIX	N 36 05/07/88 \$450,904	A ROSENSTEIN 88-NE-199	\$140,575 01/12/88 \$450,904

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ACQUISITION OF AN ANALYTICAL X-RAY AND IMAGE ANALYSIS SYSTEM ILLINOIS INSTITUTE OF TECHNOLOGY	NASH PHILIP	N 12 09/08/88 \$134,228	A ROSENSTEIN 88-NE-205	\$134,228 01/12/88 \$134,228
TRANSMISSION ELECTRON MICROSCOPE FOR CHARACTERIZATION OF AEROSPACE MATERIALS WRIGHT STATE UNIVERSITY	WEISS ISAAC	N 12 09/08/88 \$140,000	A ROSENSTEIN 88-NE-206	\$140,000 01/12/88 \$140,000
SCIENTIFIC IMAGING SYSTEM UNIV OF ILLINOIS	MAZUMDER JYOTIRMOY	N 12 09/08/88 \$203,995	A ROSENSTEIN 88-NE-208	\$203,995 01/12/88 \$203,995
MODELING OF MICROSTRUCTURAL EFFECTS ON FRACTURE PROCESSES AT HIGH LOADING RATES SRI INTERNATIONAL	SHOCKEY DONALD	N 36 10/08/88 \$441,553	A ROSENSTEIN 88-NE-216	\$92,504 01/02/89 \$441,553
TWO-PHASE MICROSTRUCTURE HIGH TEMPERATURE COMPOUNDS RENSSELAER POLYTECHNIC INSTITUTE	STOLOFF NORMAN	N 36 23/09/88 \$649,447	ROSENSTEIN 88-NE-246	
MULTIPURPOSE 2000(C)C FURNACE FOR PHYSICAL TESTING IN CONTROLLED ATMOSPHERE UNIV OF MICHIGAN	CHEN I-WEI	N 12 09/08/88 \$45,000	A SCHIDLER 88-NE-207	\$45,000 01/12/89 \$45,000
HIGH TEMPERATURE MICROHARDNESS TESTER LEHIGH UNIVERSITY	CHAN HELEN	N 12 09/08/88 \$88,478	A SCHIDLER 88-NE-209	\$88,478 01/12/89 \$88,478
NEW MECHANISM FOR TOUGHENING CERAMIC MATERIALS CEREMATEC INC	CUTLER RAYMOND	R 24 18/08/88 \$818,913	A SCHIDLER 88-NE-218	\$400,746 01/12/88 \$400,746
STRUCTURES AND PROPERTIES OF COMPOSITIONALLY MODULATED CERAMICS OAK RIDGE NATIONAL LAB	MCKEE R	N 24 22/08/88 \$225,000	A SCHIDLER 88-NE-225	\$75,000 01/10/89 \$75,000

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DEVELOPMENT OF ANALYTICAL PROCEDURES FOR EVALUATION OF PROCESS-INDUCED STRESS IN METAL-CERAMIC JOINTS COLORADO SCHOOL OF MINES	HENRIKSEN	N 24 25/09/88 \$137,190	SCHIZLER 88-NE-226	\$100,000 01/10/89 \$200,000
THERMODYNAMICS AND KINETIC STABILITY OF REFRACTORY MATERIALS AT ULTRA-HIGH TEMPERATURES NATIONAL BUREAU OF STANDARDS	HASTIE	N 24 07/09/88 \$200,000	SCHIZLER 88-NE-238	\$100,000 01/10/89 \$200,000
VORTICES IN LONG JOSEPHSON JUNCTIONS UNIV OF WISCONSIN	NORDMAN	R 36 25/07/88 \$304,000	WEINSTOCK 88-NE-202	\$99,000 15/11/88 \$304,000
ULTRA HIGH VACUUM SPUTTERING SYSTEM UNIV OF MINNESOTA	DAHLBERG	N 12 10/08/88 \$61,000	WEINSTOCK 88-NE-212	\$51,000 01/12/88 \$61,000
HIGH FREQUENCY BEHAVIOR OF LONG AND SMALL JOSEPHSON JUNCTIONS UNIV OF UTAH	SYMKO	N 36 16/09/88 \$265,000	WEINSTOCK 88-NE-217	\$0 01/12/88 \$265,000
MATERIALS CHEMISTRY OF CU-O SUPERCONDUCTORS UNIV OF CALIFORNIA, SAN DIEGO	DESTERREICHER	N 36 25/08/88 \$463,707	WEINSTOCK 88-NE-232	\$394,400 01/10/89 \$752,400
THIN FILM HIGH-T(C) SUPERCONDUCTORS LINCOLN LABORATORY/MIT	ANDERSON	N 24 14/09/88 \$752,400	WEINSTOCK 88-NE-240	\$394,400 01/10/89 \$752,400
BASIC RESEARCH IN ELECTRONICS (JSEP) UNIV OF TEXAS	POWERS	R 20 04/08/88 \$2,093,000	WITT 89-NE-203	
PASSIVATION OF GAAS AND RELATED III-V COMPOUND SEMICONDUCTOR SURFACES COLORADO STATE UNIVERSITY	WILMSEN	N 24 04/09/88 \$175,110	WITT 88-NE-204	
INVESTIGATION OF MONOLITHIC MATCHING STRUCTURES FOR HIGH PERFORMANCE TRANSISTOR CIRCUITS CALIFORNIA STATE UNIVERSITY	YARBROUGH	N 12 19/08/88 \$42,547	WITT 88-NE-219	\$42,547 15/09/88 \$42,547

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IN-SITU GSMBE GROWTH MONITORING FOR OPTOELECTRONIC DEVICES ARIZONA STATE UNIVERSITY	MARACAS GEORGE	N 12 19/08/88 \$193,950	WITT 88-NE-220	\$193,950 15/09/88 \$193,950
PICOSECOND LASER SYSTEM FOR HIGH-SPEED CHARACTERIZATION OF MONOLITHIC DEVICES UNIV OF TEXAS	DOWNER MICHAEL	N 12 19/08/88 \$75,303	WITT 88-NE-221	\$75,303 15/09/88 \$75,303
IN-SITU GSMBE GROWTH MONITORING FOR OPTOELECTRONIC DEVICES ARIZONA STATE UNIVERSITY	MARACAS GEORGE	N 12 22/08/88 \$193,950	A WITT 88-NE-222	\$193,950 01/12/88 \$193,950
INVESTIGATION OF MONOLITHIC MATCHING STRUCTURES FOR HIGH PERFORMANCE TRANSISTOR CIRCUITS CALIFORNIA STATE UNIVERSITY	YARBROUGH ALLYSON	N 12 22/08/88 \$42,547	A WITT 88-NE-223	\$42,547 01/12/88 \$42,547
PICOSECOND LASER SYSTEM FOR HIGH SPEED CHARACTERIZATION OF MONOLITHIC DEVICES UNIV OF TEXAS	DOWNER MICHAEL	N 12 22/08/88 \$75,303	A WITT 88-NE-224	\$75,303 01/12/88 \$75,303
PHOTOENHANCED DIFFUSION IN CHALCOGENIDE GLASSES UNIV OF NORTH CAROLINA	MCNEIL LAURIE	N 36 25/08/88 \$259,736	WITT 88-NE-230	
INTERNATIONAL SYMPOSIUM ON NANOSTRUCTURE PHYSICS AND FABRICATION TEXAS A AND M UNIVERSITY	KIRK M. P	N 12 25/08/88 \$165,000	WITT 88-NE-233	
STUDY HOT ELECTRON TRANSPORT BY A NEW MET TRANSISTOR STRUCTURE TEXAS INSTRUMENTS INC	BATE R	N 36 29/08/88 \$696,917	WITT 88-NE-237	
HIGH SPEED METEOSTRUCTURE OPTICAL AND ELECTRONIC DEVICES UNIV OF ILLINOIS	MORKOC HADIS	N 36 19/09/88 \$984,398	A WITT 88-NE-242	\$254,646 01/01/89 \$803,880

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INVOLVEMENT OF LIPID METABOLISM IN CHEMICAL TRANSMISSION PROCESSES AT MOSSY FIBER SYNAPSES KENT STATE UNIVERSITY	DOERMAN ROBERT	R 36 13/07/88 \$593,136	A BERRY 88-NL-270	8145,296 01/01/89 \$471,689
ANALYSIS OF CELL GUIDANCE AND SYNAPTOGENESIS ON PHOTOLITHOGRAPHICALLY-PATTERNED SUBSTRATES NORTHWESTERN UNIVERSITY	HOCKBERGER PHILIP	N 36 18/07/88 \$717,039	BERRY 83-NL-271	
NETWORK SIMULATION OF LOCOMOTION NEURAL CIRCUIT UNIV OF TEXAS MEDICAL BRANCH	MOORE LEE	N 60 18/07/88 \$678,737	BERRY 88-NL-274	
ANALYSIS OF HIPPOCAMPAL CIRCUITRY: RELATION TO MEMORY FUNCTION RUSH-PRESBYTERIAN-ST LUKE'S MEDICAL CTR	MORRELL FRANK	N 36 19/07/88 \$475,255	BERRY 88-NL-277	
DYNAMICS OF IN VIVO DOPAMINE RELEASE INDIANA UNIVERSITY FOUNDATION	WIGHTMAN MARK	N 12 26/07/88 \$40,000	A BERRY 88-NL-295	\$40,000 01/10/88 \$40,000
A SYSTEMS THEORETIC INVESTIGATION OF NEURONAL NETWORK PROPERTIES OF THE HIPPOCAMPAL FORMATION UNIV OF PITTSBURGH	BERGER THEODORE	N 36 02/08/88 \$492,694	A BERRY 83-NL-239	\$163,622 01/12/88 \$482,634
ENERGY MOBILIZATION IN BRAIN UNIV OF CALIFORNIA	LEON MICHAEL	N 36 09/08/88 \$345,396	BERRY 88-NL-295	
REGULATION OF CELLULAR EARLY GENE EXPRESSION: ASSOCIATION WITH SYNAPTIC PLASTICITY JOHNS HOPKINS UNIVERSITY	WORLEY PAUL	N 36 23/08/88 \$534,207	BERRY 89-NL-297	
1989 GORDON RESEARCH CONFERENCE ON NEURAL PLASTICITY STANFORD UNIVERSITY	SMATZ CARLA	N 12 08/09/88 \$5,000	BERRY 89-NL-305	

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DURIP-HUMAN COGNITIVE & MOTOR PERFORMANCE MEASURES UNDER TYPICAL COOL WHITE FLUORESCENT ILLUMINATION VS RELATIVELY HIGH ILLUMINANCE NORTHERN ARIZONA UNIVERSITY	PATRICK HANNON	N 12 27/09/88 \$42,751	A BERRY 88-NL-312	\$35,000 01/12/88 \$35,000
DURIP-MULTI-USER FACILITY FOR HIGH PERFORMANCE OPTICAL RECORDING OF BRAIN ACTIVITY UNIV OF TEXAS	SENSEMAN DAVID	N 12 27/09/88 \$134,470	A BERRY 88-NL-313	\$45,000 01/12/88 \$45,000
DURIP-INSTRUMENTATION FOR MANY NEURON RECORDING UNIV OF TEXAS SW MEDICAL CTR AT DALLAS	WOODWARD DONALD	N 12 27/09/88 \$230,000	A BERRY 88-NL-318	\$140,000 01/12/88 \$140,000
NEW INVESTIGATOR AWARD SOCIETY OF TOXICOLOGY	CASSEDY JOAN	N 36 11/07/88 \$195,000	A CERVENY 88-NL-260	\$55,000 01/12/88 \$195,000
POST-DOCTORAL RESEARCH AWARD SOCIETY OF TOXICOLOGY	CASSEDY JOAN	N 36 11/07/88 \$261,000	A CERVENY 88-NL-261	\$42,500 01/12/88 \$255,000
NEW INVESTIGATOR AMERICAN COLLEGE OF TOXICOLOGY	VENTURA ALEXANDRA	N 36 11/07/88 \$195,000	A CERVENY 88-NL-262	\$65,000 01/11/88 \$195,000
POST-DOCTORAL RESEARCH AWARD AMERICAN COLLEGE OF TOXICOLOGY	VENTURA ALEXANDRA	N 36 11/07/88 \$261,000	A CERVENY 88-NL-263	\$42,500 01/11/88 \$255,000
FATE OF MODEL TOXIC CHEMICALS AT LOW CONCENTRATIONS IN GROUND WATE RS OF PUERTO RICO UNIV OF PUERTO RICO	ZALDI BAGAR	N 36 21/07/88 \$375,076	CERVENY 88-NL-230	
POST-DOCTORAL RESEARCH AWARD SOCIETY OF TOXICOLOGY	SANASACK DAVE	N 36 27/07/88 \$25,500	A CERVENY 88-NL-297	\$42,500 01/11/88 \$255,000
NEW INVESTIGATOR AWARD SOCIETY OF TOXICOLOGY	SANASACK DAVE	N 36 27/07/88 \$195,000	A CERVENY 88-NL-298	\$65,000 01/11/88 \$195,000

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TWO-DIMENSIONAL ELECTROPHORETIC ANALYSIS OF SUBCELLULAR LIVER FRACTIONS AND ISOLATED HEPATOCYTES FROM NORMAL AND PFDA TREATED RATS INDIANA UNIVERSITY-PURDUE UNIV AT INDOPLS	FRANK WITZMANN	N 12 05/08/88 \$24,800	A CERVENY 88-NL-232	\$24,900 15/12/88 \$24,900
CHLOROHYDROCARBON EFFECTS ON CELL MEMBRANE FLUX OF CALCIUM ION UNIV OF TENNESSEE	PAUL WIGLER	N 36 23/08/88 \$288,033	CERVENY 88-NL-299	
SCREENING OF CHEMICALS USED IN AIR FORCE OPERATIONS FOR THEIR POTENTIAL TO GENERATE FREE RADICALS UNIV OF MARYLAND	K KUMAR	N 12 23/08/88 \$59,367	CERVENY 88-NL-300	
A STUDY OF THE EFFECT OF HYDROCARBON STRUCTURE ON THE INDUCTION OF MALE RAT NEPHROPATHY AND METABOLITE STRUCTURE WRIGHT STATE UNIVERSITY	PAUL SERVE	R 48 23/08/88 \$261,493	CERVENY 89-NL-301	
DURIP-UPGRADE OF THE MERIDIAN ACAS-470 FOR TOXICOLOGICAL RESEARCH MICHIGAN STATE UNIVERSITY	JAMES TROSKO	N 12 27/09/88 \$98,730	A CERVENY 88-NL-310	\$90,000 01/12/88 \$90,000
LANGUAGE COMPREHENSION AS STRUCTURE BUILDING UNIV OF OREGON	MORTON GERNSBACHER	N 36 11/07/88 \$283,709	FREGLY 88-NL-267	
PERCEPTUAL CONSTRAINTS ON UNDERSTANDING PHYSICAL DYNAMICS UNIV OF VIRGINIA	DENNIS PROFFITT	R 60 13/07/88 \$720,084	FREGLY 88-NL-268	
WORKING MEMORY CAPACITY: AN INDIVIDUAL DIFFERENCES APPROACH UNIV OF SOUTH CAROLINA	RANDALL ENGLE	R 48 13/07/88 \$554,668	FREGLY 88-NL-269	
THE DYNAMICS OF VISUAL REPRESENTATION: ATTENTION, ENCODING, AND RETRIEVAL PROCESSES UNIV OF PENNSYLVANIA	SAUL STERNBERG	N 36 21/07/88 \$581,327	FREGLY 88-NL-279	

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GENERALIZATION BY HUMANS AND ADAPTIVE NETWORKS STANFORD UNIVERSITY	PAVEL MICHAEL	N 36 05/08/88 \$604,985	FREGLY 88-NL-293	
FLEXIBILITY AND SKILL: THE COSTS OF EXPERTISE YALE UNIVERSITY	STERNBERG ROBERT	N 36 08/09/88 \$641,827	FREGLY 88-NL-304	
DURIP-COMPUTATIONAL MODELING OF COGNITIVE PROCESSES HARVARD UNIVERSITY	KOSSLYN STEPHEN	N 12 27/09/88 \$110,000	A FREGLY 88-NL-311	\$65,027 01/12/88 \$65,027
INFERRING CAUSAL HISTORY FROM SHAPE DATA RUTGERS - THE STATE UNIVERSITY	LEYTON MICHAEL	N 12 11/07/88 \$39,850	TANGNEY 88-NL-265	
PARAMETRIC STUDY OF DIFFUSION-ENHANCEMENT NETWORKS FOR SPATIO-TEMP ORAL GROUPING IN REAL-TIME ARTIFICIAL VISION BOSTON UNIVERSITY	WAXMAN ALLEN	N 24 11/07/88 \$229,428	TANGNEY 88-NL-266	
DYNAMIC MECHANISMS OF VISUAL CORTICAL PROCESSING ROCKEFELLER UNIVERSITY	GILBERT CHARLES	N 36 18/07/88 \$564,000	TANGNEY 88-NL-273	
SPATIAL STRUCTURE PERCEPTION IN CHANGING OPTICAL PATTERNS VANDERBILT UNIVERSITY	LAPPIN JOSEPH	N 36 21/07/88 \$360,359	TANGNEY 88-NL-282	
A CONFERENCE ON THREE DIMENSIONAL REPRESENTATION UNIV OF MINNESOTA	SIEDERMAN IRVING	N 12 21/07/88 \$19,580	A TANGNEY 88-NL-283	\$19,585 01/01/89 \$19,585
PERCEPTUAL MAPPING STUDIES IN THE ALERT MACAQUE MONKEY STATE UNIVERSITY OF NEW YORK	ODM BRUCE	N 60 02/08/88 \$616,234	TANGNEY 88-NL-290	
PROCESSING OF COMPLEX VISUAL TEXTURES NEW YORK UNIVERSITY MEDICAL CENTER	VICTOR JONATHAN	N 36 02/08/88 \$487,981	TANGNEY 88-NL-291	

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BINAURAL MASKING: AN ANALYSIS OF MODELS CENTRAL INSTITUTE FOR THE DEAF	GILKEY	R 60 05/08/88 \$638,631	TANGNEY 88-VL-234	
DEMODULATION PROCESSES IN AUDITORY PERCEPTION OHIO STATE UNIVERSITY	FETH	N 36 15/09/88 \$317,111	A TANGNEY 88-NL-296	\$98,400 01/12/88 \$305,900
NEURAL BASIS OF MOTION PERCEPTION UNIV OF CALIFORNIA	RAMACHANDRAN	N 36 23/08/88 \$577,696	TANGNEY 89-NL-298	
EYE MOVEMENTS AND SPATIAL PATTERN VISION EYE RESEARCH INSTITUTE & RETINA PHOTO	AREND	R 36 23/08/88 \$769,151	TANGNEY 88-NL-302	
EQUIPMENT FOR NEURAL NETWORK RESEARCH ON SPEECH PERCEPTION AND ADAPTIVE PATTERN RECOGNITION BOSTON UNIVERSITY	GROSSBERG	N 12 01/09/88 \$12,000	D TANGNEY 89-NL-303	
NEURAL ENCODING WITHIN AUDITORY CORTEX INDIANA UNIVERSITY FOUNDATION	WONG	N 36 20/09/88 \$200,495	TANGNEY 89-VL-306	
LOCALIZATION OF EDGES AND SURFACES UNIV OF WASHINGTON	PALMER	N 36 20/09/88 \$187,795	TANGNEY 88-NL-307	
A REAL-TIME MINIATURE, LOW POWER SPEECH PROCESSOR JOHNS HOPKINS UNIVERSITY	GOLDSTEIN	N 36 20/09/88 \$621,663	TANGNEY 88-NL-308	
THE EFFECTS OF LUMINANCE BOUNDARIES ON COLOR PERCEPTION HARVARD UNIVERSITY	KRONAUER	R 36 20/09/88 \$431,500	TANGNEY 88-VL-309	

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DURIP-INSTRUMENTATION FOR RECORDING & ANALYZING MULTIPLE INPUT/ OUTPUT SACCADIC EYE MOVEMENT NEUROSENSORY CONTROL NORTH DAKOTA STATE UNIVERSITY	ENDERLE JOHN	N 12 27/09/88 \$117,995	A TANGNEY 88-NL-314	\$23,000 01/12/88 \$23,000
DURIP-VISUAL SIMULATION LABORATORY UNIV OF ILLINOIS	ANDERSEN GEORGE	N 12 27/09/88 \$330,602	A TANGNEY 88-NL-315	\$124,000 01/12/88 \$124,000
DURIP-SUPERCOMPUTING AND THE PROCESSING OF ACOUSTIC TRANSIENTS BY BIOLOGICAL SYSTEMS AND MACHINES UNIV OF SOUTH ALABAMA	GRONN CHARLES	N 12 27/09/88 \$94,728	A TANGNEY 88-NL-316	\$29,000 01/12/88 \$29,000
DURIP-IMPROVED EYE MOVEMENT MONITORING CAPABILITIES FOR STUDIES IN VISUAL COGNITION DARTMOUTH COLLEGE	FENDRICH ROBERT	N 12 27/09/88 \$115,000	A TANGNEY 88-NL-317	\$65,000 01/12/88 \$65,000
COMMISSION ON BEHAVIORAL AND SOCIAL SCIENCES AND EDUCATION OFFICE OF NAVAL RESEARCH	O'HARE JOHN	N 12 29/09/88 \$30,000	TANGNEY 88-NL-319	
MODELS OF THE NEURONAL MECHANISMS OF TARGET LOCALIZATION IN THE BA RN OWL PRINCETON UNIVERSITY	PEARSON JOHN	N 36 29/09/88 \$675,000	TANGNEY 88-NL-320	

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BEHAVIOR OF PSEUDO-DISSIPATIVE SYSTEMS NORTHWESTERN UNIVERSITY	WALKER JOHN	N 36 06/07/88 \$145,815	CROWLEY 88-NM-470	
VARIATIONAL ANALYSIS OF DISCRETE EVENT DYNAMICAL SYSTEMS UNIV OF ARIZONA	LI SHU	N 24 14/07/88 \$117,559	CROWLEY 88-NM-479	
MATHEMATICAL MODELING AND NUMERICAL SIMULATION OF THE DYNAMICS OF FLEXIBLE STRUCTURES SUBJECT TO LARGE OVERALL MOTIONS STANFORD UNIVERSITY	J SIMO	R 36 14/07/88 \$195,582	CROWLEY 88-NM-485	
STABILITY AND PERFORMANCE ANALYSIS WITH STRUCTURED PERTURBATIONS UNIV OF WISCONSIN	BARNISH B. ROSS	N 36 14/07/88 \$314,600	CROWLEY 88-NM-489	
ACTIVE AND/OR PASSIVE CONTROL OF TIME-DELAY SYSTEMS WITH DISTRIBUTED PARAMETERS. UNIV OF CALIFORNIA	BRUCH JOHN	N 36 19/07/88 \$428,707	CROWLEY 88-NM-497	
FUNCTIONAL ANALYTIC METHODS FOR NONLINEAR CONTROL SYSTEMS ANALYSIS AND DESIGN RICE UNIVERSITY	DEFIGUEIREDO RUI J.	N 36 19/07/88 \$147,607	CROWLEY 88-NM-498	
A CONFERENCE ON APPROXIMATION THEORY AND NUMERICAL LINEAR ALGEBRA KENT STATE UNIVERSITY	GARTLAND, JR. EUGENE	N 12 19/07/88 \$8,488	CROWLEY 88-NM-499	
NUMERICAL METHODS AND MATHEMATICS FOR STRUCTURED EIGENVALUE AND INVERSE EIGENVALUE PROBLEMS UNIV OF KANSAS	BYERS RALPH	N 36 26/07/88 \$75,078	CROWLEY 88-NM-503	
NEW DESIGN TECHNIQUES FOR HIGH MANUFACTURING YIELD, RELIABILITY AND PERFORMANCE OF ENGINEERING SYSTEMS TEXAS A AND M RESEARCH FOUNDATION	STYELINSKI A	N 36 28/07/88 \$438,194	CROWLEY 88-NM-510	

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PARALLEL ALGORITHMS IN COMBINATORIAL OPTIMIZATION PENNSYLVANIA STATE UNIVERSITY	PARDALOS	N 36 09/08/89 \$256,943	CROWLEY 88-NM-517	
PDE SIMPLIFICATION BY COORDINATE CHANGES AND FEEDBACK UNIV OF TEXAS	HUNT	N 36 11/08/88 \$284,256	CROWLEY 88-NM-519	
CONTROL THEORY FOR DISTRIBUTED PARAMETER SYSTEM PRINCETON UNIVERSITY	FLANN	N 24 12/09/88 \$102,300	A CROWLEY 88-NM-544	\$48,983 01/12/88 \$101,303
A1 INNOVATIVE ALGORITHM FOR SIMULATION OF NEURO-COMPUTATION UNIV OF NOTRE DAME	LIU	N 24 20/09/88 \$189,408	CROWLEY 88-NM-550	
CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS WITH APPLICATION TO FLOW CONTROL VIRGINIA POLYTECHNIC INST & STATE UNIV	BAUMANN	N 36 20/09/88 \$124,658	CROWLEY 88-NM-551	
CONTROL OF COMPLEX MULTIBODY SPACECRAFT UNIV OF MARYLAND	KRISHNAPRASAD	R 12 20/09/88 \$369,879	A CROWLEY 88-NM-552	\$370,153 01/13/88 \$369,879
CONTROL OF COMPLEX MULTIBODY SPACECRAFT UNIV OF MARYLAND	KRISHNAPRASAD	R 12 20/09/88 \$369,379	A CROWLEY 88-NM-558	
INVERSION OF NONLINEAR INPUT-OUTPUT MAPS, AND ADAPTIVE CONTROL SYSTEMS FOR LARGE MANEUVER OF AIRCRAFT UNIV OF NEVADA	SINGH	N 24 22/09/88 \$141,074	CROWLEY 88-NM-564	
SENSITIVITY AND STABILITY ANALYSIS FOR SEMI-INFINITE PROGRAMMING PROBLEMS GEORGE WASHINGTON UNIVERSITY	FIACCO	N 36 23/08/88 \$180,099	HOLLAND 88-NM-527	
CENTER FOR PARALLEL OPTIMIZATION UNIV OF WISCONSIN	MANGASARIAN	N 36 20/09/88 \$927,159	HOLLAND 88-NM-553	

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CONTROL THEORY ON APPLIED ANALYSIS RENSSELAER POLYTECHNIC INSTITUTE	MCCLAUGHLIN JOYCE	R 24 25/08/88 \$49,262	JACOBS 88-NM-534	
GENERALIZED MEASURES OF ROBUSTNESS IN STOCHASTIC PROGRAMMING JOHNS HOPKINS UNIVERSITY	ELLIS J. HUGH	N 36 06/07/88 \$132,186	MILLER 88-NM-458	
MATHEMATICAL PROGRAMMING AND LOGICAL INFERENCE CARNEGIE-MELLON UNIVERSITY	BALAS EGON	R 24 06/07/88 \$172,580	A MILLER 88-NM-459	\$33,357 01/11/88 \$59,503
PARALLEL METHODS FOR LARGE-SCALE CONSTRAINED OPTIMIZATION UNIV OF MINNESOTA	ROSEN J.	R 36 06/07/88 \$240,365	A MILLER 88-NM-472	\$63,932 01/02/89 \$130,256
STUDY ON A HIGH-RATE, HIGH-SPEED CONCATENATED CODING SYSTEM UNIV OF SOUTHERN CALIFORNIA	REED IRVING	N 12 14/07/88 \$85,618	MILLER 88-NM-490	
SEGMENT APPROACH TO ROBUST CONTROL UNIV OF ILLINOIS	PERKINS WILLIAM	N 24 26/07/88 \$191,243	MILLER 88-NM-506	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION NATIONAL BUREAU OF STANDARDS	GOOGS PAUL	N 16 03/08/88 \$39,376	A MILLER 88-NM-512	\$39,376 01/10/88 \$39,376
COMPUTATION AND THEORY IN NONLINEAR OPTIMIZATION UNIV OF WISCONSIN	ROBINSON STEPHEN	N 12 03/08/88 \$44,500	A MILLER 89-NM-513	\$44,800 15/11/88 \$92,942
ITERATIVE METHODS FOR LARGE SPARSE LINEAR SYSTEMS ARISING FROM, PAR TIAL DIFFERENTIAL EQUATIONS UNIV OF MARYLAND	ELMAN HOWARD	N 36 06/07/88 \$191,190	NACHMAN 88-NM-467	

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TRANSPORT, MIXING, AND CHAOS IN FLUID DYNAMICS - NEW PREDICTIVE TOOLS AND THEORETICAL FRAMEWORKS CALIFORNIA INSTITUTE OF TECHNOLOGY	LEONARD ANTHONY	N 36 03/07/88 \$608,900	NACHMAN 88-NM-474	
DIGITAL LOGIC FOR FLUID DYNAMICS		N 24 13/07/88 \$383,000	NACHMAN 88-NM-475	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	VICHAIC GERARD			
ITERATIVE METHODS FOR LARGE SPARSE LINEAR SYSTEMS ARISING FROM PARTIAL DIFFERENTIAL EQUATIONS UNIV OF MARYLAND	ELMAN HOWARD	N 36 14/07/88 \$191,190	NACHMAN 88-NM-477	
A METHOD FOR THE GENERATION OF SOLUTION ADAPTIVE GRIDS BY USING THE ELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS OF SURFACE COORDINATE MISSISSIPPI STATE UNIVERSITY	Z. U. WARSJ	N 12 14/07/88 \$68,364	NACHMAN 88-NM-480	
DIFFERENTIAL EQUATIONS, RELATED PROBLEMS OF PADE APPROXIMATIONS AND COMPUTER APPLICATIONS COLUMBIA UNIVERSITY	CHUDNOVSKY DAVID	R 24 14/07/88 \$171,068	NACHMAN 88-NM-482	
1989 SUMMER SEMINAR ON "THE MATHEMATICS OF RANDOM MEDIA" AMERICAN MATHEMATICAL SOCIETY	.MAXWELL JAMES	N 18 14/07/88 \$89,039	NACHMAN 83-NM-494	
MAXIMUM-LIKELIHOOD IMAGE RESTORATION FOR NONCOHERENT OPTICAL IMAGING UNIV OF MISSOURI	HOLMES TIMOTHY	N 36 19/07/88 \$61,418	NACHMAN 88-NM-502	
CHAOS AND NOISE IN NEURONS AND NETWORKS NAVAL OCEAN SYSTEM CENTER	BULSARA ADJ	N 12 26/07/88 \$160,000	NACHMAN 88-NM-507	
FLUID DYNAMICS OF MIXTURES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	GREENSPAN HARVEY	N 24 23/07/88 \$130,953	NACHMAN 88-NM-511	
RESEARCH AND DEVELOPMENT OF THE P-VERSION OF THE FINITE ELEMENT METHOD WASHINGTON UNIVERSITY	KATZ I NORMAN	N 36 05/08/88 \$0	NACHMAN 88-NM-514	\$61,690 01/11/88 \$191,480

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THEORETICAL AERODYNAMICS RENSELAER POLYTECHNIC INSTITUTE	COLE JULIAN	N 12 05/08/88 \$55,026	A NACHMAN 88-NM-515	\$55,026 01/11/89 \$55,026
NON3-LINEAR DYNAMICS UNIV OF NORTH CAROLINA	HEWHOUSE SHELTON	N 27 05/08/88 \$182,546	A NACHMAN 89-NM-516	\$182,546 30/10/88 \$806,167
STABILITY STUDIES OF VISCOELASTIC PARALLEL SHEAR FLOWS MICHIGAN TECHNOLOGICAL UNIVERSITY	KOLKKA ROBERT	N 36 15/08/88 \$291,177	D NACHMAN 88-NM-522	
APPLIED HARMONIC ANALYSIS UNIV OF NEW YORK CITY	AUSLANDER LOUIS	N 35 16/08/88 \$650,000	A NACHMAN 89-NM-523	\$650,000 01/12/88 \$2,250,000
PROBLEMS IN REACTING FLOWS AND FLOWS OF VARIABLE VISCOSITY FLUIDS NORTHWESTERN UNIVERSITY	MATALON MOSHE	N 24 23/08/88 \$53,438	NACHMAN 89-NM-525	
SLOW PASSAGE THROUGH SUCCESSIVE 91-URCATION AND LIMIT POINTS: AN A NALYTICAL, NUMERICAL AND EXPERIMENTAL STUDY NORTHWESTERN UNIVERSITY	ERNEUX THOMAS	N 36 29/08/88 \$210,215	D NACHMAN 88-NM-536	
RANDOM VARIABLE GENERATORS AND APPLICATIONS OF STOCHASTIC EQUATIO NS MOREHOUSE COLLEGE	SAMSANDHAM M.	N 36 29/08/88 \$200,579	NACHMAN 88-NM-537	
EFFECT OF MICROWAVE RADIATION ON THE CHEMICAL REACTION KINETICS UNIV OF TEXAS	REICHL L.	N 36 29/08/88 \$150,000	NACHMAN 88-NM-539	
NONLINEAR DYNAMICS OF DEFORMABLE RODS UNIV OF ILLINOIS	SHABANA AHMED	N 36 19/09/88 \$250,269	NACHMAN 88-NM-548	

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WORKSHOP ON INTEGRAL AND FIELD EQUATION METHODS IN FLUID STRUCTURE INTERACTIONS UNIV OF DELAWARE	KLEINMAN RALPH	N 09 20/09/88 \$38,298	NACHMAN 88-NM-549	
RESEARCH IN COMPOSITE MATERIALS UNIV OF DELAWARE	GILBERT ROBERT	N 24 23/09/88 \$115,173	NACHMAN 88-NM-556	
(COURIP) EXPLORING AND CONTROLLING SPATIO TEMPORAL CHAOS AND COMPLE COMPLEX STRUCTURES THROUGH VISUALIZATION: A MINI SUPERCOMPUTER APP ARIZONA STATE UNIVERSITY	TROTTER WILLIAM	N 12 27/09/88 \$145,755	A NACHMAN 88-NM-572	\$145,755 01/12/88 \$145,755
(DURIP) REQUEST FOR AN IRIS 40/70GT WORKSTATION AND VIDEO PERIPHERALS UNIV OF MARYLAND BALTIMORE COUNTY	GREENBERG JAMES	N 12 28/09/88 \$82,012	A NACHMAN 89-NM-574	\$82,012 01/12/88 \$82,012
WAVE-PACKET INSTABILITY OF INVISCID SHEAR FLOWS: TO DERIVE A RAYLE IGH-TYPE INFLECTION-POINT CRITERION OR PROVE THAT NONE EXISTS FLORIDA INSTITUTE OF TECHNOLOGY	RUSSELL JOHN	N 12 29/09/88 \$60,374	D NACHMAN 88-NM-576	
SPARSE SOLVERS FOR MULTIPROCESSORS UNIV OF COLORADO	JORDAN HARRY	N 36 23/08/88 \$390,819	D NELSON 88-NM-526	
CALCULATING SHARP SHOCKS WITH SOBOLLEV GRADIENTS UNIV OF NORTH TEXAS	NEUBERGER JOHN	N 36 23/08/88 \$150,774	D NELSON 88-NM-528	
MULTIGRID METHODS FOR TRANSPORT THEORY UNIV OF COLORADO AT DENVER	MANTEUFFEL THOMAS	N 36 29/08/88 \$294,040	NELSON 89-NM-538	
(COURIP) CSRD PARALLEL SERVICE MACHINE ENHANCEMENT UNIV OF ILLINOIS	KUCK DAVID	N 12 27/09/88 \$253,580	A NELSON 88-NM-559	\$253,530 01/12/88 \$253,580
GRAY II SUPPORT FOR OTHER 2304/A3 INSTRUMENTS AIR FORCE WEAPONS LAB	BURNETTE HOWARD	N 12 28/09/88 \$10,000	A NELSON 88-NM-575	\$10,000 01/10/89 \$10,000

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CONVERGENCE & PERFORMANCE OF SYNCHRONOUS AND ASYNCHRONOUS PARALLEL AND CONVENTIONAL ITERATIVE METHODS UNIV OF CONNECTICUT	NEUMANN MICHAEL	R 24 29/09/88 \$91,005	A NELSON 88-NM-581	\$43,374 01/12/88 \$91,005
SOLVING LINEAR SYSTEMS ON MULTIPROCESSORS UNIV OF ILLINOIS	SAMEH AHMED	R 12 25/08/88 \$82,638	THOMAS 89-NM-532	
SOLVING LINEAR SYSTEMS ON MULTIPROCESSORS UNIV OF ILLINOIS	SAMEH AHMED	R 12 25/08/88 \$82,638	THOMAS 89-NM-533	
THE ORCA PROJECT: RESEARCH ON HIGH PERFORMANCE PARALLEL COMPUTER PROGRAMMING ENVIRONMENTS UNIV OF WASHINGTON	SNYDER LARRY	N 36 14/07/88 \$1,509,117	A WAKSMAN 89-NM-492	\$92,000 01/04/89 \$92,000
EVENT ORIENTED DESIGN AND ADAPTIVE MULTIPROCESSING TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LEFKOVITZ DAVID	N 24 14/07/88 \$59,015	A WAKSMAN 89-NM-493	\$59,015 01/01/89 \$59,015
UNDERSTANDING OBJECT CLASSES: MODELING AND MATCHING UNIV OF MARYLAND	ROSENFELD AZRIEL	N 24 14/07/88 \$372,188	A WAKSMAN 89-NM-496	\$130,598 01/12/89 \$372,188
INTELLIGENT, INTEGRATED FIBER OPTIC NETWORKS UNIV OF CALIFORNIA	MUKHERJEE BISWANATH	N 48 11/08/88 \$311,304	A WAKSMAN 89-NM-513	\$40,000 01/02/89 \$390,000
QUEUEING NETWORKS WITH FINITE CAPACITIES GEORGIA TECH RESEARCH CORPORATION	AKYILOIZ IAN	N 36 11/08/88 \$384,645	A WAKSMAN 88-NM-520	\$49,200 01/01/89 \$49,200
A METHODOLOGY FOR KNOWLEDGE/DATA-INTENSIVE APPLICATIONS DEVELOPMENT T GEORGIA UNIV RESEARCH FOUNDATION INC	POTTER WALTER	N 27 23/08/88 \$258,779	WAKSMAN 88-NM-531	

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MOTION ANALYSIS AND ITS APPLICATIONS UNIV OF SOUTHERN CALIFORNIA	NEVATIA RAMAKANT	N 36 31/09/88 \$1,168,502	WAKSMAN 88-NM-540	
GENERIC TASKS FOR KNOWLEDGE-BASED PROBLEM SOLVING: EXTENSIONS AND NEW DIRECTIONS OHIO STATE UNIV RESEARCH FOUNDATION	CHANDRASEKHARAN B	N 24 02/09/88 \$246,482	A WAKSMAN 88-NM-542	\$120,061 01/12/88 \$246,482
KNOWLEDGE DELIVERY RESEARCH UNIV OF SOUTHERN CALIFORNIA	MANN WILLIAM	R 10 06/09/88 \$100,000	A WAKSMAN 88-NM-543	\$100,000 01/12/88 \$100,000
OBJECT RECOGNITION IN RANGE IMAGES USING CAD DATABASES UNIV OF MICHIGAN	JAIN RAMESH	N 12 19/09/88 \$89,188	A WAKSMAN 88-NM-546	\$89,188 01/12/88 \$89,188
RESEARCH ON COLLABORATIVE PLANNING HARVARD UNIVERSITY	GROSZ BARBARA	N 12 19/09/88 \$100,000	A WAKSMAN 88-NM-547	\$100,000 01/12/88 \$100,000
A LABORATORY FOR HIGH PERFORMANCE UNIV OF MARYLAND	ROUSSOPOULOS NICK	N 36 21/09/88 \$426,698	WAKSMAN 88-NM-559	
GEOMETRIC REASONING FOR OBJECT RECOGNITION GENERAL ELECTRIC CO	MCELLIGOTT P	N 36 26/09/88 \$45,000	A WAKSMAN 88-NM-565	\$45,000 01/12/88 \$408,046
CONFERENCE ON INFORMATION THEORY IN ENGINEERING AND THE MATHEMATIC AL SCIENCES UNIV OF NORTH CAROLINA	BAKER CHARLES	N 12 06/07/88 \$9,000	WOODRUFF 88-NM-471	
FILTERING, STATISTICAL SIGNAL PROCESSING AND STOCHASTIC VARIATIONAL PROBLEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MITTER SANJOY	R 36 08/07/88 \$265,747	A WOODRUFF 88-NM-473	\$63,645 15/01/89 \$205,345
OPTIMAL RECOVERY AND RECOGNITION UNIV OF LOWELL	JONES LEE	N 36 14/07/88 \$271,401	WOODRUFF 88-NM-483	

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RESEARCH ON PROBABILISTIC METHODS		N 36		
FORD AEROSPACE & COMMUNICATIONS CORP	LENDINE	14/07/88 \$183,741	WOODRUFF 89-NM-486	
LEAST ABSOLUTE DEVIATION ESTIMATES OF AUTOREGRESSIVE PARAMETERS		N 24		
ILLINOIS INSTITUTE OF TECHNOLOGY	OLSEN	14/07/88 \$179,936	WOODRUFF 88-NM-487	
CONFERENCE IN PROBABILITY THEORY		N 12		
AUBURN UNIVERSITY	HUDSON	14/07/88 \$7,860	WOODRUFF 89-NM-493	
GEOMETRIC METHODS WITH APPLICATION TO ROBUST DETECTION AND ESTIMATION		N 24		
TEXAS A AND M RESEARCH FOUNDATION	HALVERSON	19/07/88 \$68,948	WOODRUFF 88-NM-501	30 01/01/89 \$69,948
BURN-IN METHODOLOGY: TAXONOMY, DATA ANALYSIS AND TECHNOLOGY TRANSFER		N 12		
UNIV OF OKLAHOMA	LEEMIS	26/07/88 \$52,262	WOODRUFF 88-NM-505	
REDUCING DATA DIMENSION TO LOWER SIGNAL PROCESSING COMPUTATIONAL REQUIREMENTS AND MAXIMIZE PERFORMANCE		N 35		
UNIV OF WISCONSIN	VEEN	29/07/88 \$263,240	WOODRUFF 83-NM-509	
ESTIMATION OF A REGRESSION TYPE FUNCTION		N 24		
COLUMBIA UNIVERSITY	YATRACOS	15/08/88 \$48,893	WOODRUFF 89-NM-521	
MULTIVARIATE ANALYSIS AND ITS APPLICATIONS		N 24		
PENNSYLVANIA STATE UNIVERSITY	RAO	23/08/88 \$377,133	WOODRUFF 88-NM-524	331,400 01/01/89 \$166,400
THE ANALYSIS OF MULTIRESPONSE EXPERIMENTS		N 01		
UNIV OF FLORIDA	KHURI	23/08/88 \$21,189	WOODRUFF 88-NM-529	

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NEW ALGORITHMS FOR BROADBAND AND NARROWBAND SOURCE LOCALIZATION AND A SEPARABLE 2-DIR FILTER REALIZATION WRIGHT STATE UNIVERSITY	SHAW ARNAB	N 24 23/08/88 \$98,977	WOODRUFF 88-NM-530	
ESTIMATING THE RELIABILITY OF A SYSTEM ON THE BASIS OF SAMPLE PATHS NORTHERN ILLINOIS UNIVERSITY	EBRAHIMI NADAR	N 24 23/08/88 \$59,240	WOODRUFF 88-NM-535	
PREDICTING AND ESTIMATING MAINTAINABILITY, AVAILABILITY AND RELIABILITY FOR COMMUNICATION NETWORKS UNIV OF OKLAHOMA	PULAT P.	N 12 31/08/88 \$50,159	WOODRUFF 88-NM-541	
RESEARCH IN STATISTICAL INFERENCE TEXAS A AND M RESEARCH FOUNDATION	CARROLL R	N 24 15/09/88 \$136,295	A WOODRUFF 88-NM-545	\$50,000 01/01/89 \$50,000
EFFICIENT ALGORITHMS FOR IMAGE COMPRESSION USING PREDICTIVE VECTOR QUANTIZATION UNIV OF UTAH	MATHEWS V.	N 24 20/09/88 \$181,827	WOODRUFF 88-NM-554	
NON-PARAMETRIC METHODS FOR SURVIVAL RISK RATIO, AND BOOTSTRAP METHODS FOR ERRORS-IN-VARIABLES AND OTHER DEPENDENT STRUCTURES PENNSYLVANIA STATE UNIVERSITY	GUTTI BABU	N 36 20/09/88 \$129,261	WOODRUFF 88-NM-555	
BAYESIAN SURVIVAL ANALYSIS FOR COMPONENTS AND SYSTEMS UNIV OF MICHIGAN	HILL BRUCE	R 36 20/09/88 \$166,523	WOODRUFF 88-NM-557	
PROPOSAL FOR AN INTERNATIONAL CONFERENCE ON STATISTICAL DESIGN AND RELATED INFERENCE AND COMBINATORICS COLORADO STATE UNIVERSITY	SRIVASTAVA JAVA	N 12 21/09/88 \$99,500	WOODRUFF 88-NM-560	
STATISTICAL THEORY OF RELIABILITY UNIV OF MISSOURI	BASU ASIT	R 36 21/09/88 \$192,355	WOODRUFF 88-NM-561	
THE TIME-DEPENDENT RENEWAL PROCESS: NEW RESULTS, APPLICATIONS AND EXTENSIONS UNIV OF FLORIDA	SIVAZLIAN B.	N 36 21/09/88 \$292,266	WOODRUFF 88-NM-562	

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STATNET A COMPUTER NETWORK FOR STATISTICIANS INTERFACE FOUNDATION OF NORTH AMERICA	EDDY WILLIAM	N 24 22/09/88 \$86,908	WOODRUFF 88-NM-563	\$102,000 01/12/88 \$102,000
(COURIP) REQUEST FOR EQUIPMENT IN SUPPORT OF RESEARCH IN ALGORITHMIC PROBABILITY UNIV OF ARIZONA	NETUS MARCEL	N 12 27/09/88 \$102,000	A WOODRUFF 88-NM-566	\$102,000 01/12/88 \$102,000
(COURIP) GRAPHICS EQUIPMENT FOR DATA ANALYSIS GEORGE MASON UNIVERSITY	WEGMAN EDWARD	N 12 27/09/88 \$62,377	A WOODRUFF 88-NM-567	\$62,377 01/12/88 \$62,377
(COURIP) COMMUNICATION SYSTEM SIMULATION WORKSTATION UNIV OF PUERTO RICO	CRUZ-ENERIC JORGE	N 12 27/09/88 \$49,797	A WOODRUFF 88-NM-568	\$49,797 01/12/88 \$49,797
(COURIP) SENSOR BASED CONTROL OF ROBOTIC MECHANISMS BOSTON UNIVERSITY	BAILLIEUL JOHN	N 12 27/09/88 \$124,000	A WOODRUFF 88-YM-570	\$124,000 01/12/88 \$124,000
(COURIP) TWO-PROCESSOR ALLIANT FX/4 SYSTEM NORTH CAROLINA STATE UNIVERSITY	KELLEY CARL	N 12 27/09/88 \$100,000	A WOODRUFF 88-YM-571	\$100,000 01/12/88 \$100,000
(COURIP) COMPUTER SIMULATIONS OF PLASMAS, NONLINEAR SYSTEMS AND CONTROL THEORY RUTGERS - THE STATE UNIVERSITY	SONTAG EDUARDO	N 12 28/09/88 \$83,479	A WOODRUFF 89-YM-573	\$83,479 01/12/88 \$83,479
TOPICS IN STOCHASTIC SYSTEMS, FAILURE TIME MODELS, CHANGE-POINT PR OBLEMS, AND SEQUENTIAL ANALYSIS STANFORD UNIVERSITY	STEGMUND DAVID	N 36 29/09/88 \$299,931	WOODRUFF 89-YM-577	
FOURIER ANALYSIS AND SIGNAL PROCESSING BY USE OF THE MORIUS INVERS ION FORMULA UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	REED IRVING	N 24 29/09/88 \$201,014	WOODRUFF 88-NM-578	

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INSTITUTION

RESEARCH ON CONFIDENCE REGIONS FOR RESTRICTED LOCATION AND SCALE P
ARAMETERS
UNIV OF PENNSYLVANIA

INVESTIGATOR

MINTZ

MAX

RESEARCH IN SOME FUTURE DIRECTIONS IN RELIABILITY AND QUALITY CONT
ROL
GEORGE WASHINGTON UNIVERSITY

SINGPURWALLA

NOZER

TYPE/MONTHS
RECEIVED
AMOUNT

N 24
29/09/89
\$213,566

N 36
29/09/88
\$221,722

STATUS
PROGRAM MANAGER
PROPOSAL #

WOODRUFF
88-NM-579

WOODRUFF
89-NM-590

EXPIRY
START DATE
TOT AMT

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LASER SWITCHED POWER LINAC UNIV OF ROCHESTER	MELISSINOS A.	R 12 08/08/88 \$123,295	A BARKER 88-NP-173	\$123,295 01/11/88 \$123,295
COMPACT MILLIMETER WAVE DEVICES: COLLECTIVE INTERACTION KLYSTRON, DUPPLER SHIFTED CYCLOTRON MASER AND HARMONIC GYROTRON UNIV OF CALIFORNIA	MEVILLE LUNNANN, JR.	R 12 10/08/88 \$100,000	A BARKER 88-NP-176	\$100,000 01/12/88 \$100,000
HIGH POWER, HIGH FREQUENCY RADIATION FROM BEAM-PLASMA INTERACTIONS UNIV OF CALIFORNIA	GREGORY BENFORD	R 12 20/09/88 \$75,000	A BARKER 88-NP-202	\$75,000 15/12/88 \$75,000
(DURIIP) INSTRUMENTATION FOR LASER SWITCHED POWER LINAC UNIV OF ROCHESTER	ADRIAN MELISSINOS	N 12 26/09/88 \$68,705	A BARKER 88-NP-211	\$69,705 01/12/88 \$68,705
(DURIIP) HIGH SPEED CAMERA AND RF ENCLOSURE FOR INVESTIGATION OF PLASMA EDGE CATHODE TEXAS TECH UNIVERSITY	KLAUS ZIEHER	N 12 26/09/88 \$75,685	A BARKER 88-NP-212	\$75,685 01/12/88 \$75,685
BACKWARD WAVE OSCILLATOR INVESTIGATIONS IN THE RAMAN REGIME UNIV OF NEW MEXICO	EDL SCHAMLOGLU	N 24 28/09/88 \$217,496	BARKER 88-NP-222	
ENERGETIC X-RAY PROCESSES IN ATOMS UNIV OF OREGON	BERND CRASEMANN	N 12 11/07/88 \$198,103	A KELLEY 88-NP-153	\$199,103 15/01/89 \$198,103
STRUCTURE AND DYNAMICS OF EXCITED ATOMS UNIV OF VIRGINIA	THOMAS GALLAGHER	R 12 12/07/98 \$173,053	A KELLEY 88-NP-154	\$173,053 01/11/38 \$173,053
PRECISION FREQUENCY METROLOGY USING LASER COOLED IONS NATIONAL BUREAU OF STANDARDS	DAVID WINELAND	N 12 12/07/88 \$165,000	A KELLEY 88-NP-155	\$155,000 01/10/88 \$165,000

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MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS UNIV OF FLORIDA	BARTLETT RODNEY	R 12 18/07/88 \$123,550	A KELLEY 88-NP-156	\$123,550 01/11/93 \$123,550
CALCULATION AND HALF COLLISION ANALYSIS OF STATE-TO-STATE CROSS SECTIONS IN ATOMIC COLLISIONS NATIONAL BUREAU OF STANDARDS	JULIENNE PAUL	N 12 25/07/88 \$114,000	A KELLEY 88-NP-158	\$114,000 01/10/88 \$114,000
EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PRITCHARD DAVID	N 12 27/07/88 \$60,000	A KELLEY 88-NP-159	\$60,000 01/10/88 \$60,000
COMPUTATIONAL SUPPORT FOR X-RAY PHYSICS NASA - AMES RESEARCH CENTER	COOPER D.	N 12 28/07/88 \$25,000	A KELLEY 88-NP-161	\$25,000 01/10/88 \$25,000
ULTRAVIOLET EMISSION CROSS SECTIONS BY ELECTRON AND PHOTON IMPACT NASA - NATL AERONAUTICAL AND SPACE ADMIN	AJELLO JOSEPH	N 12 28/07/88 \$110,700	A KELLEY 88-NP-162	\$110,700 01/10/88 \$110,700
LASER-SYNCHROTRON STUDIES OF ATOMIC AND MOLECULAR PHOTOABSORPTION NATIONAL BUREAU OF STANDARDS	EDERER DAVID	N 12 05/08/88 \$138,000	A KELLEY 88-NP-171	\$138,000 01/10/88 \$133,000
A QUANTUM FIELD-THEORETIC APPROACH TO ATMOSPHERIC IONS AND MOLECULES JOHNS HOPKINS UNIVERSITY	SILVER DAVID	N 12 19/08/88 \$126,000	KELLEY 88-NP-182	
1989 SANIBEL SYMPOSIA UNIV OF FLORIDA	DHRN YNGVE	N 06 22/08/88 \$9,500	KELLEY 88-NP-183	
THEORETICAL STUDY ON GROUND & EXCITED STATES OF DIATOMIC & POLYATOMIC ANIONS UNIV OF ARIZONA	ADAMCOWICZ LUDWIK	N 36 30/08/88 \$238,326	KELLEY 88-NP-137	
SPECTROSCOPIC & KINETIC STUDIES OF IONIC EXCIMER MOLECULAR FORMATION RELEVANT TO VUV LASERS HOWARD UNIVERSITY	KUSHAWAMA VIKRAM	N 36 31/08/88 \$124,605	KELLEY 88-NP-130	

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CONFERENCE ON ATOMS IN SUPER-INTENSE LASER FIELDS UNIV OF ROCHESTER	EVERLY JOSEPH	N 12 12/09/88 \$15,000	KELLY 88-NP-196	\$157,192 01/12/88 \$157,192
(DURIP) LASER SYSTEM FOR DEVELOPING A NEW TYPE OF ATOM TRAP MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KLEPPNER DANIEL	N 12 26/09/88 \$157,192	A KELLY 88-NP-215	\$157,192 01/12/88 \$157,192
ATOM WAVE INTERFEROMETER MASSACHUSETTS INSTITUTE OF TECHNOLOGY	PRICHARD DAVID	N 12 28/09/88 \$158,000	KELLY 88-NP-219	
NEGATIVE IONS IN CHARGE TRANSFER PROCESSES UNIV OF CALIFORNIA	MEYNABER ROY	N 12 28/09/88 \$38,342	KELLY 88-NP-221	
ELEVENTH INTERNATIONAL SEMINAR ON ION ATOM COLLISIONS (ISIA XI) KANSAS STATE UNIVERSITY	COCKE CHARLES	N 09 28/09/88 \$12,101	KELLY 88-NP-224	
HYDROGEN CLUSTER ION SIMULATIONS UNITED TECHNOLOGIES RESEARCH CENTER	CASSENTI BRICE	N 12 28/09/88 \$96,671	KELLY 88-NP-225	
RELATIVISTIC AND QUANTUM ELECTRODYNAMIC EFFECTS IN ATOMIC STRUCTURE NATIONAL BUREAU OF STANDARDS	MOHR PETER	N 36 28/09/88 \$637,000	KELLY 88-NP-227	
MAGNETIC FIELD REVERSAL IN TERRESTRIAL & EXTRATERRESTRIAL PLASMAS JESSEN (JAMES MICHAEL)	JESSEN JAMES	N 12 26/08/88 \$88,702	D RADOSKI 98-NP-104	
FINAL DEVELOPMENT OF A COMPREHENSIVE MAGNETOHYDRODYNAMIC MODEL OF SOLAR-TERRESTRIAL INTERACTION RMA AEROSPACE INC	STAMARA STEVEN	N 36 31/08/88 \$541,412	RADOSKI 98-NP-189	

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(CURIP) A 2048-CCD ANALYSIS SYSTEM TO LOCATE DIM SPACE TARGETS UNIV OF ARIZONA	GENRELS TOM	N 12 26/09/88 \$145,134	A RAOOSKI 88-NP-216	\$145,134 01/12/88 \$145,134
MATERIALS RESEARCH SOCIETY SYMPOSIA MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	R 18 29/07/88 \$16,000	A SCHLOSSER 88-NP-166	\$16,000 15/11/88 \$16,000
ADVANCED SOURCE DEVELOPMENT AND APPLICATIONS STANFORD UNIVERSITY	LINDAU I.	N 12 10/08/88 \$1,030,000	D SCHLOSSER 88-NP-175	
CENTER FOR ULTRAVIOLET/EXTREME ULTRAVIOLET(UV/XUV) RESEARCH DUKE UNIVERSITY	MADEY JOHN	N 36 10/08/88 \$2,860,000	A SCHLOSSER 88-NP-177	\$915,000 15/12/98 \$2,860,000
OPTICAL PROCESSES IN MICROPARTICLES CLARKSON UNIVERSITY	CHEW HERMAN	N 36 16/08/88 \$147,515	D SCHLOSSER 88-NP-179	
SELF-PUMPED PHASE CONJUGATION IN A SUPERSONICALLY FLOWING MEDIUM UNIV OF SOUTH FLORIDA	DJEU NICHOLAS	R 36 18/08/88 \$288,415	SCHLOSSER 88-NP-191	
PICOSECOND LASER SPECTROSCOPY OF LILNSEC(2) CRYSTALS AND FILMS HAMPTON UNIVERSITY	VENABLE DEMETRIUS	N 36 26/09/88 \$600,000	SCHLOSSER 88-NP-186	
TWO-PHOTON COOPERATIVE CASCADE SUPERFLUORESCENCE COLUMBIA UNIVERSITY	HARTMAN SVEN	N 36 06/09/88 \$361,571	D SCHLOSSER 88-NP-191	
NONLINEAR PHOTONICS-LIMITS & POSSIBILITIES UNIV OF CALIFORNIA	GUSTAFSON T. KENNETH	N 36 06/09/88 \$330,231	SCHLOSSER 88-NP-192	
INVESTIGATION OF INTENSE PHOTOELECTRON EMISSION FROM LASER-IRRADIATED SEMICONDUCTORS COLUMBIA UNIVERSITY	OSGOOD RICHARD	N 12 12/09/88 \$167,730	SCHLOSSER 88-NP-194	

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A NEW, HIGH PERFORMANCE, TUNABLE LASER SOURCE AND ITS APPLICATION TO SPECTROSCOPY AND DYNAMICS PRINCETON UNIVERSITY	LITTMAN MICHAEL	N 36 12/09/88 \$269,780	SCHLOSSBER 88-NP-197	
OPTICALLY TRIGGERED MICROWAVE AND MILLIMETER WAVE GENERATORS AND COUPLERS GEORGIA TECH RESEARCH CORPORATION	BUCK JOHN	N 24 19/09/88 \$259,363	SCHLOSSBER 88-NP-200	
OPTOELECTRONICS RESEARCH CENTER UNIV OF NEW MEXICO	BRUECK S	R 36 22/09/88 \$3,600,000	A SCHLOSSBER 88-NP-203	\$1,200,000 31/12/88 \$3,600,000
THE NINTH INTERNATIONAL CONFERENCE ON LASER SPECTROSCOPY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FELD MICHAEL	N 12 26/09/88 \$15,000	SCHLOSSBER 88-NP-207	
(DURIP) ULTRA-HIGH-VACUUM SYSTEM AND SCANNING TUNNELING MICROSCOPE HEAD FOR SCANNING TIP MICROSCOPY LABORATORY UNIV OF ARIZONA	SARID OROR	N 12 26/09/88 \$33,183	A SCHLOSSBER 88-NP-208	\$33,183 01/12/88 \$33,183
(DRUP) NOZZLE BEAM DEPOSITED DIAMOND-LIKE CARBON FILMS HAMPTON UNIVERSITY	LOWE CALVIN	N 12 26/09/88 \$36,500	A SCHLOSSBER 88-NP-209	\$36,500 01/12/88 \$36,500
(DURIP) MULTIPLE OPTICAL PROBING OF HIGH FREQUENCY SEMICONDUCTOR DEVICES UNIV OF CALIFORNIA	FETTERMAN HAROLD	N 12 26/09/88 \$145,767	A SCHLOSSBER 88-NP-210	\$145,767 01/12/88 \$145,767
DETERMINATION NONRESONANT MULTIPHOTON IONIZATION CROSS SECTIONS OF METAL AND SEMICONDUCTOR ATOMS AT 243 NM VARIAN ASSOCIATES	SOGARD MICHAEL	N 12 28/09/88 \$203,170	SCHLOSSBER 88-NP-218	
SOFT X-RAY LASERS IN CAPILLARY DISCHARGE PLASMAS COLORADO STATE UNIVERSITY	ROCCA JORGE	N 36 28/09/88 \$354,594	SCHLOSSBER 88-NP-220	

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ORGANIZATION OF THE 1939 OPTICAL SOCIETY OF AMERICA PHOTONIC SCIENCE TOPICAL MEETING SERIES OPTICAL SOCIETY OF AMERICA	QUINN	N 11 28/09/88 \$128,000	SCHLOSSER 88-NP-228	
PARTICLE BEAMS FOR DEFENSE CULHAM LABORATORY	GREEN	R 24 20/07/88 \$2,342,000	SMITH 89-NP-157	
METASTABLE NEGATIVE IONS AND ION-PAIR FORMATION SRI INTERNATIONAL	PETERSON	R 36 28/07/88 \$513,056	A SMITH 88-NP-163	\$160,000 15/10/88 \$513,056
A TANDEM MICROWAVE-DRIVEN CUSP NEGATIVE ION SOURCE UNIV OF CALIFORNIA	MORSE	R 12 29/07/88 \$54,000	A SMITH 88-NP-165	\$54,000 01/10/88 \$54,000
INVESTIGATION OF GRADED BANDGAP SOLAR CELLS UNIV OF WASHINGTON	OLSEN	R 24 29/07/88 \$132,434	SMITH 88-NP-157	
HIGH RESOLUTION GEOLOGICAL SITE CHARACTERIZATION UTILIZING GROUND MOTION DATA SOUTHERN METHODIST UNIVERSITY	STUMP	R 36 02/08/88 \$327,107	A SMITH 88-NP-168	\$122,153 01/11/88 \$327,107
SURFACE FLASHOVER OF SEMICONDUCTORS: A FUNDAMENTAL STUDY UNIV OF NEBRASKA	WILLIAMS	N 36 03/08/88 \$634,160	A SMITH 89-NP-169	\$200,408 01/01/89 \$634,160
SUPPORT OF SOIO/IST SPONSORED PROGRAMS DEFENSE NUCLEAR AGENCY	RUSTAN	N 14 04/08/88 \$470,000	A SMITH 88-NP-170	\$470,000 01/08/88 \$470,000
INSTITUTE FOR TECHNOLOGY AND STRATEGIC RESEARCH LAWRENCE LIVERMORE LAB (CALIF UNIV)	DICKINSON	N 14 08/08/88 \$300,000	A SMITH 88-NP-172	\$300,000 01/08/88 \$300,000
SOIO/IST PROGRAM AT NASA/WALLOPS NASA - WALLOPS FLIGHT CENTER	JOHNSTON	N 14 09/08/88 \$40,000	A SMITH 88-NP-174	\$40,000 01/08/88 \$40,000

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BOOST PHASE SIGNATURE COMPUTATIONS ARMY RESEARCH OFFICE	DAVID	N 14 11/08/88 \$150,000	A SMITH 88-NP-173	\$150,000 01/08/88 \$150,000
HYDROPHONE INVESTIGATIONS OF EARTHQUAKES AND EXPLOSION GENERATED HIGH-FREQUENCY SEISMIC PHASES UNIV OF HAWAII	DANIEL	R 36 17/08/88 \$406,173	SMITH 88-NP-190	
STORAGE & RELEASE OF MULTI-MEGAJOULE QUANTITIES OF ENERGY BY NUCLEAR EXCITATION TECHNIQUES WESTINGHOUSE ELECTRIC CORPORATION	JOHN	N 36 26/08/88 \$490,119	SMITH 88-NP-185	
MERGED BEAM STUDIES OF LASER STIMULATED RADIATIVE RECOMBINATION UNIV OF WESTERN ONTARIO	J. BRIAN	N 24 30/08/88 \$123,000	SMITH 88-NP-188	
MULTIFACTOR STRESS AGING OF ELECTRICAL INSULATION STATE UNIVERSITY OF NEW YORK	JAVAD	N 18 12/09/88 \$87,729	A SMITH 89-NP-193	\$44,195 01/01/89 \$87,729
MODERN SEISMIC TRAVEL TIME TABLES AND STATION CORRECTIONS FOR P AND S WAVES UNIV OF CALIFORNIA	JOHN	N 24 14/09/88 \$170,966	SMITH 88-NP-198	
RELATIVISTIC DOCUMENTATION OF GLOBAL GPS CLOCK SYNCHRONIZATION IN SUPPORT OF THE SPACETIME COMMON GRID NORTH CAROLINA STATE UNIVERSITY	ARKADY	N 36 15/09/88 \$348,850	SMITH 88-NP-199	
GENERAL THEORY OF ELECTRON DETACHMENT OAK RIDGE NATIONAL LAB	ROBIN	N 12 19/09/88 \$60,000	A SMITH 89-NP-201	\$60,000 01/10/88 \$60,000
SCALING OF VOLUME NEGATIVE ION SOURCES LAWRENCE LIVERMORE LAB (CALIF UNIV)	JOHN	N 03 23/09/88 \$25,000	A SMITH 88-NP-204	\$25,000 01/10/88 \$25,000

REPORT DATE 10/13/88

PROPOSAL STATUS REPORT (A JUL 88 - 30 SEP 88)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

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TITLE
TITLE (CONT.)
INSTITUTION

FORMATION & ENHANCEMENT OF H- & L- IONS IN A MAGNETICALLY FILTERED
MULTICUSP ION SOURCE AND THE MEASURE OF NEUTRAL ATOMIC HYDROGEN
LEUNG
LAWRENCE BERKELEY LABORATORY

KA-HGO

INVESTIGATOR

(CURIP) SURFACE PHYSICS INSTRUMENTATION

STEVENS INSTITUTE OF TECHNOLOGY

SEIDL

MILOS

(CURIP) EQUIPMENT TO SUPPORT THE DEVELOPMENT OF HIGH RESOLUTION
GEOPHYSICAL SITE
SOUTHERN METHODIST UNIVERSITY

STUMP

BRIAN

GRAND CHALLENGES TO COMPUTATIONAL SCIENCES

LAWRENCE LIVERMORE LAB (CALIF UNIV)

NOWAK

PAUL

PROPOSAL FOR A WORKSHOP IN THE PHYSICS AND APPLICATIONS OF HOLLOW
ELECTRODE GLOW SWITCHES
UNIV OF SOUTHERN CALIFORNIA

GUNDERSON

MARTIN

INVESTIGATIONS OF THE TRANSIENT BEHAVIOR OF THE CATHODE FALL REGIO
N IN PLANAR AND HOLLOW CATHODES
POLYTECHNIC INSTITUTE OF NEW YORK

SCHAEFER

GERHARD

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 09 23/09/88 \$143,700	A SMITH 88-NP-206	\$143,700 01/10/88 \$143,700
N 12 26/09/88 \$150,334	A SMITH 88-NP-213	\$150,334 01/12/88 \$150,334
N 12 26/09/88 \$92,500	A SMITH 88-NP-214	\$92,500 01/12/88 \$92,500
N 06 26/09/88 \$4,500	A SMITH 88-NP-217	\$4,500 01/10/88 \$4,500
N 12 28/09/88 \$5,000	SMITH 88-NP-223	
N 36 28/09/88 \$416,491	SMITH 88-NP-226	

**Air Force Office of Scientific Research
Bolling AFB, DC 20332-6448**

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