

# researchnews

Office of the Vice President for Research and Public Service

JULY 1999

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## Grants and Contracts Summary

April/May 1999

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>ADMINISTRATION</b>				
<b>Financial Aid</b>				
Hubbard, Y.	USDE	\$7,797	Supp.	Pell Grant-FY99
Hubbard, Y.	USDE	\$3,699	Supp.	Perkins Loan-FY99
<b>Vice President for Research and Public Service</b>				
Plank, J.	Hirsh Fdn.	\$22,275	New	Sullivan Stencil Exhibit
<b>COLLEGE OF ARTS &amp; SCIENCES</b>				
<b>Anthropology</b>				
McKinnon, S.	NSF	\$10,460	New	The Evolving Gender Roles of Military Spouses
<b>Asian &amp; Mideastern Languages</b>				
Sawaie, M.	USDE	\$50,000	New	Advanced Language Training in Arabic
<b>Astronomy</b>				
Thuan, T.	Va. Space Grant Cons.	\$5,000	New	Fellowship for F. Bauer
<b>Biology</b>				
Barroso, M.	DHHS/NIGMS	\$146,755	Cont.	Regulation of Cytoskeleton & Membrane Traffic by P22
Block, G.	DHHS/NIDDK	\$50,000	Supp.	Neural Basis of Circadian Organization
Block, G.	NSF	\$1,556,000	Cont.	The Center for Biological Timing
Block, G.	NSF	\$12,278	New	U.S.-Japan Seminar on Molecular Mechanism
Cronmiller, C.	NSF	\$130,770	Cont.	Ovarian Follicle Morphogenesis in Drosophila
Galloway, L.	NSF	\$5,000	Supp.	The Contribution of Parental Effects to Life History Evolution in <i>Campanula Americana</i>
Grainger, R.	DHHS/NCRR	\$277,536	Cont.	Amphibian Model for Vertebrate Development Genetics
Hirsh, J.	DHHS/NIDA	\$19,832	New	Predocctoral Fellowship for R. Andretic
Kawasaki, M.	DHHS/NIMH	\$78,708	Cont.	Information Processing by the Electrosensory System
Keller, R.	DHHS/NICHHD	\$246,250	New	Training Program in Developmental Biology
Keller, R.	DHHS/NICHHD	\$188,202	Cont.	Fibrillin & Early <i>Xenopus</i> Patterning
Mellon, D.	NSF	\$242,038	New	Analysis of Response of Neurons in the Central Olfactory Pathway
Menaker, M.	Morehouse School of Med.	\$165,976	New	Plasticity of Mammalian Circadian Axis
Nagy, E.	NSF	\$50,000	Cont.	Research Experiences for Undergraduates
Rissman, E.	DHHS/NIMH	\$164,612	New	Genetic & Neuroendocrine Regulation of Behavioral Systems
Rissman, E.	DHHS/NIMH	\$77,811	Cont.	Behavioral Regulation of Neuroendocrine Cells
Rissman, E.	Eli Lilly	\$20,000	New	Selective Estrogen Receptor Modulators & Cognition
Timko, M.	NSF	\$200,000	New	Nuclear Factors Regulating Late-Independent Chlorophyll Formation
Wilbur, H.	NSF	\$8,121	New	Dissertation Research for E. Crespi
<b>Chemistry</b>				
Cafiso, D.	NSF	\$11,000	Supp.	Molecular Interactions Regulating Cell Signaling
Demas, J.	NSF	\$50,000	Supp.	Research Experience for Undergraduates in Chemistry
Etz Korn, F.	DHHS/NIGMS	\$123,158	Cont.	Mimics of Helix Turn Helix Peptides
Grimes, R.	Air Products & Chemicals, Inc.	\$55,280	New	New Olefin Polymerization Catalysts
Hunt, D.	DHHS/NIGMS	\$691,389	Ren.	Protein Sequencing by Tandem Mass Spectrometry
Macdonald, T.	Wallace Labs	\$62,500	Supp.	The Metabolism of Felbamate to Reactive Intermedia
Marshall, J.	NSF	\$165,000	Ren.	Allene Directed Asymmetric Synthesis
Pu, L.	Amer. Chem. Soc.	\$6,500	Supp.	A Systematic Development of Enantioselective Polymers
<b>Economics</b>				
Goeree, J.	NSF	\$57,486	New	An Experimental Examination of Bounded Rationality

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<b>Environmental Sciences</b>				
Albertson, J.	USDA	\$10,000	New	Combining Large Eddy Simulation Model with Remote Sensing
Desanker, P.	NSF	\$29,320	New	Workshop on Integrated Analysis & Management of Renewable Resources
Galloway, J.	NPS	\$77,155	Supp.	Shenandoah Watershed Study
Galloway, J.	UCAR	\$20,000	Cont.	Nitrogen Cycling in China and the U.S.
Galloway, J.	USGS	\$7,122	Ren.	National Trends Network Site Monitoring–Birdwood
Herman, J.	EPA	\$518	Supp.	Star Fellowship for S. Johnson
Howard, A.	NASA	\$15,000	New	The Topography & Basin Deposits of Equatorial Highlands
Mcglathery, K.	EPA	\$608	Supp.	Star Fellowship for I. Buffam
Raffensperger, J.	USGS	\$34,449	New	Predicting Stream Acidification with TOPMODEL
Reed, W.	Va. Dept. of Mines	\$3,000	Supp.	Geographic Information Systems
Zieman, J.	Fla. Int. U.	\$29,943	Cont.	Seagrass Monitoring for the Florida Keys
<b>French Literature</b>				
McKinley, M.	FJ Gould Fdn.	\$28,000	New	Symposium on French Women Writers
<b>Government and Foreign Affairs</b>				
McClain, P.	NSF	\$82,000	Supp.	REU Supplement: Ralph Bunche Summer Institute
<b>Mathematics</b>				
Burchard, A.	NSF	\$57,276	New	Geometry of Random Curves
Howland, J.	NSF	\$24,085	Cont.	Chaos & Stability in Quantum Mechanics
Rapinchuk, A.	NSF	\$72,000	New	Congruence Subgroups Problem & Group of Finite Representation Type
<b>Physics</b>				
Bloomfield, L.	NSF	\$150,00	Cont.	Magnetic, Electronic & Structural Development in Atomic Clusters
Fendley, P.	NSF	\$50,000	Cont.	Non-Perturbative Approaches to Condensed Matter
Lee, M.	NSF	\$85,000	Cont.	Spectroscopy of Coulomb Interactions in Disordered Electric Solids
Lindgren, R.	NSF	\$72,000	Supp.	Research Experience & Curriculum Enhancement
<b>Psychology</b>				
Brunjes, P.	DHHS/NICHD	\$198,577	Cont.	Training Grant in Neurobehavioral Development
Hill, D.	DHHS/NIDCD	\$33,370	Supp.	Peripheral Sensory System Development & Regeneration
McArdle, J.	DHHS/NIA	\$179,120	Cont.	Growth Curve of Adult Intelligence
McArdle, J.	DHHS/NIA	\$28,294	Supp.	Growth Curve of Adult Intelligence
Oltmanns, T.	DHHS/NIMH	\$190,527	Cont.	Peer Assessment of Personality Traits & Pathology
Patterson, C.	McGraw-Hill Fdn.	\$30,000	New	Multimedia Courseware for Introductory Child Psychology
Proffitt, D.	Carnegie Mellon	\$135,870	Supp.	Sharing Viewpoints, Objects & Animations
Proffitt, D.	DHHS/NIMH	\$192,806	Cont.	Constraints on Understanding Physical Dynamics
Wegner, D.	DHHS/NIMH	\$19,084	New	Predocctoral Fellowship for T. Wheatley
Williams, C.	DHHS/NIMH	\$97,741	Cont.	Neurobiological Contribution to Memory Formation
Wilson, M.	Kellogg Fdn.	\$16,000	New	Mutual Support Focus Group: Intervention
<b>Russian &amp; East European Study Center</b>				
Lynch, A.	USDE	\$52,000	Cont.	Teaching/Research in Russian & East European Studies
<b>South Asia Center</b>				
Ehnbom, D.	USDE	\$4,015	Supp.	South Asian National Resource Center
<b>Virginia Institute of Theoretical Astronomy</b>				
O'Connell, R.	NASA	\$77,399	Supp.	Critical Tests of Stellar Evolution and Applications
<b>CURRY SCHOOL OF EDUCATION</b>				
<b>Curriculum, Instruction &amp; Special Education</b>				
Cohen, S.	Va. Dept. of Ed.	\$1,800	New	U.S. Project Star–Supporting Teaching & Reflection
Strzepak, J.	U. of CA	\$18,000	New	National Writing Project
<b>Human Services</b>				
Reeve, R.	Va. Dept. of Ed.	\$8,640	New	ADHD and the Schools
<b>HEALTH SCIENCES CENTER</b>				
<b>Anesthesiology</b>				
Johns, R.	DHHS/NIGMS	\$306,011	Cont.	Anesthetics & Nitric Oxide Signaling

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<b>Beirne Carter Center</b>				
Braciale, T.	Beirne Carter Fdn.	\$100,000	New	Beirne Carter Center Research
Braciale, T.	DHHS/NIAID	\$257,120	Cont.	Interdisciplinary Training Program in Immunology
Engelhard, V.	DHHS/NCI	\$288,954	Cont.	Preclinical Study of Peptide-Based Human Tumor Vaccines
Engelhard, V.	DHHS/NIAID	\$312,401	Cont.	Antigenic Determinants on Hla-b7 & Hla-a2
Engelhard, V.	Receptor Labs	\$6,480	Supp.	Receptor Labs Start-Up Consultation
Engelhard, V.	Receptor Labs	\$2,160	Supp.	Receptor Labs Start-Up Consultation
Mei, L.	DHHS/NIGMS	\$11,655	Cont.	Tyrosine Phosphatases at Neuromuscular Junction
Ravichandran, K.	DHHS/NIAID	\$216,226	Cont.	Inhibitory Signaling via the Fcgriib Receptor of B Cells
<b>Biochemistry</b>				
Allis, C.	Human Front. Sci. Prog.	\$80,478	New	Regulation of Histone Acetylation in Drosophila
Li, R.	DHHS/NIGMS	\$246,585	New	Role of Transcription Factors in Eukaryotic DNA Replication
<b>Biomedical Engineering</b>				
French, B.	DHHS/OFM	\$123,682	Supp.	Gene Therapy for Myocardial Stunning & Infarction
<b>Cell Biology</b>				
Hanigan, M.	DHHS/NCI	\$255,936	Ren.	Significance of Ggt Expression in Tumors
Herr, J.	Berlex Labs	\$1,098,090	Supp.	Program of Research & Development for a Sperm Antigen
Herr, J.	DHHS/NICHHD	\$2,289,042	Cont.	Center for Recombinant Gamete Contraceptive Vaccinogens
Herr, J.	Mellon	\$360,000	New	Carbohydrate Immunocontraceptive Epitopes
Herr, J.	Mellon	\$250,000	Ren.	Training & New Research Initiatives in Contraception
Hinton, B.	Rockefeller Fdn.	\$10,500	New	Epididyma-Specific Transcription Factors
Sutherland, A.	DHHS/NICHHD	\$193,769	Cont.	Analysis of Trophoblast Cell Motility
White, J.	Lalor Fdn.	\$25,000	Cont.	Fellowship for Y. Takahashi
<b>Center for Research in Reproduction</b>				
Marshall, J.	DHHS/NICHHD	\$852,792	Cont.	Clinical & Basic Studies in Polycystic Ovarian Syndrome
Marshall, J.	DHHS/NICHHD	\$135,438	Cont.	Cellular & Physiological Mechanisms
<b>Center for the Study of Mind and Human Interaction</b>				
Volkan, V.	U.S. State Dept.	\$9,500	New	Turkish Dialogue
<b>Dean's Office</b>				
Downs, J.	DOD	\$371,090	New	Brain Injury Research: An FMRI Study
<b>Family Medicine</b>				
Galazka, S.	DHHS/HRSA	\$217,971	New	Predocctoral Training in Family Medicine
<b>Health Evaluation Science</b>				
Abbott, R.	Kuakini Med. Ctr.	\$83,550	Supp.	Biostatistics Core-Honolulu Heart Program
Knaus, W.	Apache Med. Systems	\$13,100	Supp.	Short-Term Agreement
Knaus, W.	Bluefield Reg. Med. Ctr.	\$11,268	Supp.	Consulting Agreement
Knaus, W.	Dyncorp	\$85,365	Supp.	Consulting Agreement
<b>Internal Medicine</b>				
Beller, G.	CIS-US	\$16,750	New	A Multicenter, Open-Label Study
Bergin, J.	Duke	\$2,550	Supp.	Sudden Cardiac Death in Heart Failure
Bergin, J.	Medtronic	\$7,250	Supp.	Sudden Cardiac Death in Heart Failure
Bergin, J.	SmithKline	\$1,844	Supp.	Multicenter Randomized, Double-Blind Study
Bolton, W.	Abbott Labs	\$320	Supp.	Comparison Between 19-NOR-1 Alpha 25- Dihydroxy
Bolton, W.	Alteon, Inc.	\$13,646	Supp.	A Placebo-Controlled Safety & Efficacy Study
Bolton, W.	Eisai, Inc.	\$22,673	New	A Multiple-Dose Study of the Pharmacokinetics of Donep
Bolton, W.	Hoechst Marion	\$8,199	Supp.	Safety & Efficacy of Intravenous HMR4396
Caldwell, S.	Glaxo	\$5,878	Supp.	Interferon Alpha 2V(Intron) Plus Ribavirin
Caldwell, S.	Glaxo	\$2,290	Supp.	Interferon Alpha 2B(Intron) Plus Ribavirin
Caldwell, S.	Shering Plough	\$20,000	New	Screening Protocol for Identification of Patients
Caldwell, S.	Wyeth-Ayerst	\$35,444	Supp.	Interferon Alpha 2B(Intron) Plus Ribavirin
Carey, R.	DHHS/NHLBI	\$256,039	Cont.	AT2 Receptor Mechanisms in ANG II Dependent Hypertension
Cohn, S.	Barnes-Jewish Hosp.	\$87,469	Ren.	Prostaglandins in Epithelial Study
Cohen, R.	IDEC Pharm. Corp.	\$2,000	Supp.	Randomized Phase I Study
Cohen, R.	Theradex	\$6,000	Supp.	Phase III Trial of Taxol/Doxorubicin
Cohen, R.	Theradex	\$100	Supp.	Phase III Trial of Taxol/Doxorubicin
Cominelli, F.	Covance	\$35,987	Supp.	A Phase II, Multi-Nation, Double-Blind, Placebo Study
Cominelli, F.	Glaxo	\$2,000	Supp.	A Twelve-Week Randomized, Double-Blind Placebo Study
Cominelli, F.	Glaxo	\$1,935	Supp.	A Twelve-Week Randomized, Double-Blind Placebo Study
Cominelli, F.	TAP	\$10,435	Supp.	Phase II Study of the Safety & Efficiency of TAK-603/A

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Day, R.	DHHS/NIDDK	\$186,742	Ren.	Specific Repression of Prolactin Gene Expression
Dimarco, J.	Temple	\$2,967	Supp.	Multicenter Unsustained Tachycardial Trial
Donowitz, G.	RW Johnson Fdn.	\$5,250	Supp.	Multicenter Randomized, Open-Label Study
Donowitz, G.	Pfizer	\$8,096	Supp.	Randomized, Open-Label Comparative, Multicenter Study
Donowitz, G.	Pfizer	\$3,300	Supp.	Randomized, Open-Label Comparative, Multicenter Study
Donowitz, G.	Pharmacia & UpJohn	\$3,610	Supp.	Linezolid vs. Nafcillin/Sodium/Dicloracillin
Enelow, R.	Covance	\$10,993	Supp.	Efficacy of Avonex in the Treatment of Idiopathic Fibrosis
Enelow, R.	Covance	\$2,769	Supp.	Efficacy of Avonex in the Treatment of Idiopathic Fibrosis
Gwaltney, J.	Agouron Pharm.	\$119,606	New	Phase II Randomized, Double-Blind Study
Hayden, F.	Agouron Pharm.	\$112,908	New	Phase II Randomized, Double-Blind Study
Hayden, F.	Aviron	\$35,433	New	Prospective Open-Label, Multicenter Trial Study
Hayden, F.	Hoffman LaRoche	\$49,338	Supp.	A Double-Blind Randomized, Placebo- Controlled Study
Hayden, F.	Hoffman LaRoche	\$41,927	Supp.	A Double-Blind Randomized, Placebo- Controlled Study
Hayden, F.	Hoffman LaRoche	\$16,782	Supp.	A Double-Blind Randomized, Placebo- Controlled Study
Hayden, F.	Viropharma	\$30,000	Supp.	Double-Blind, Randomized, Placebo-Controlled Trial
Loenig, S.	PPD Pharmaco	\$2,000	Supp.	Comparison of the Safety & Efficiency of Clarithromycin
Linden, J.	Biogen	\$31,250	Supp.	Ligand Screening
Moorman, J.	Medical Automation Sys.	\$30,000	New	HRV Monitoring of Newborn Infants
Myers, C.	Cap Cure Fdn.	\$100,000	Cont.	Cap Cure Therapy Consortium
Obrig, T.	DHHS/NIAID	\$380,306	Cont.	Shiga Toxin Mode of Action in Bacterial Disease
Peck, R.	Banyu Pharm. Co.	\$10,080	New	A Phase I, Single Dose Escalation Trial
Petri, W.	DHHS/NIAID	\$610,872	New	Adherence-Blocking Vaccine for Amebiasis
Petri, W.	DHHS/NIAID	\$315,213	Cont.	Infectious Diseases Training Program
Peura, D.	PPD Pharmaco	\$3,100	Supp.	Study to Evaluate Long-Term Safety & Efficacy
Peura, D.	Tap	\$5,800	New	A Study to Evaluate the Effect of Lansoprazole 30
Peura, D.	Tap	\$1,563	Supp.	Study to Evaluate Long-Term Safety & Efficacy
Peura, D.	Tap	\$621	Supp.	Study to Evaluate the Effects of Lansoprazole 15
Platts-Mills, T.	Brigham & Womens Hosp.	\$69,320	New	The Epidemiology of Home Allergens & Asthma
Platts-Mills, T.	DHHS/NIAID	\$385,053	Cont.	Dust Mite Cockroach & Cat Allergens in Asthma
Platts-Mills, T.	DHHS/NIAID	\$222,130	Cont.	Trichopylton & Aspergillus: Immunology & Lung Disease (rec. 2/99)
Roche, J.	Pfizer	\$5,300	Supp.	Phase II, Multicenter Randomized, Double-Blind Study
Sarembock, I.	Brigham & Women's Hosp.	\$4,500	Supp.	OPUS-TIMI 16: Phase III
Sarembock, I.	MedCath	\$5,000	New	Double-Blind, Placebo-Controlled, Parallel Design Study
Sarembock, I.	Partners Healthcare System	\$5,000	Supp.	OPUS-TIMI 16: Phase III International
Siragy, H.	Novartis	\$4,186	New	VALUE (Valsartan Antihypertensive Long Term Use)
Suratt, P.	DHHS/NHLBI	\$14,000	New	6 <sup>th</sup> International Symposium on Sleep & Respiration
Thorner, M.	Pharmacia	\$15,975	Supp.	Postdoctoral Fellowship for A. Toogood
Townsend, G.	Hoffman LaRoche	\$1,140	New	A Phase IV Non-Comparative Study
Townsend, G.	Hoffman LaRoche	\$1,100	Supp.	A Phase IV Non-Comparative Study
Vance, M.	Sensus	\$38,612	Supp.	A Six-Week, Double-Blind, Placebo-Controlled Dose Study
Williams, M.	IDEC Pharm.	\$2,000	Supp.	Phase II, Multi-Center Study to Evaluate Safety
Williams, M.	Novartis	\$10,872	Supp.	A Randomized, Double-Blind, Multicenter Comparative Trial
Yamshchikov, V.	WHO	\$14,975	Cont.	Defective JE Virus with Abortive Replication as Candidate Vaccines
<b>Markey Center for Cell Signaling</b>				
Brautigan, D.	Brown U.	\$4,000	Supp.	Phosphatase Enzyme Preparation
Macara, I.	DHHS/NCI	\$256,581	Cont.	Ras Like Gtp Binding Proteins
<b>Microbiology</b>				
Bender, T.	DHHS/NIGMS	\$231,327	Cont.	Regulation of C-MYB Function by Phosphorylation
Camerini, D.	DHHS/NIAID	\$113,250	Cont.	Testing Anti-HIV-1 Gene Therapy in Scid- hu Mice
Hammaraskjold, M.	DHHS/NIDDK	\$148,000	New	Development of Immune- Modulatory Viral Vectors
Parsons, J.	DHHS/NCI	\$294,868	Cont.	Avian Tumor Virus Antigens
Weber, M.	DHHS/NCI	\$24,839	Supp.	Cell Signaling Prostate Cancer Progression
<b>Neurology</b>				
Bennett, J.	Pharmacia	\$6,709	New	Effect of Pramipexole on Parkinson's Disease Patients
Brashear, H.	Novartis	\$24,384	Supp.	Drug ENA713 Study #B-356
Fountain N.	Hoehst Roussel	\$383	Supp.	Safety & Efficacy Evaluation of Oral Vigabatrin
Fountain N.	Parke-Davis	\$39,021	Supp.	Protocol 1008-035-027
Fountain N.	United Chemicals of Belgium	\$3,981	Supp.	Protocol RPCE97D0401
Johnston, K.	Columbia U.	\$17,550	Supp.	Gain Protocol
Juel, V.	Myelos Neurosciences Corporation	\$5,656	Supp.	Investigational Study under Protocol TX14-004

Principal Investigator	Sponsor	Amount	Type	Project Title
Parker, W.	Mitokor	\$17,500	Supp.	Amendment #2 to Collaborative Research Agreement
Parker, W.	U. of CA/San Diego	\$149,895	Cont.	Mitochondrial Defects in Guam PDC/ALS Project #6
Phillips, L.	Genentech	\$8,940	Supp.	Phase III Safety & Efficacy Study
Phillips, L.	Genentech	\$836	Supp.	Phase III Efficacy & Safety of Human Nerve Growth
Wooten, G.	APDA	\$47,500	Supp.	APDA Advanced Center for Parkinson's Research
Wooten, G.	Amgen	\$250	Supp.	Protocol 960173: Open-Label Trial
Wooten, G.	U. of Rochester	\$5,158	Supp.	UpJohn Clinical Trial
<b>Neuroscience</b>				
Scrabble, H.	DHHS/NCRR	\$135,030	Cont.	LAC Repressor Mouse
<b>Neurosurgery</b>				
Helm, G.	Research Fdn-AANS	\$3,084	Supp.	Fellowship for T. Alden
Levy, W.	DHHS/NIMH	\$202,760	Ren.	A Computational Approach for Studying the Brain
Shaffrey, M.	Alkermes, Inc.	\$1,492	Supp.	A Phase II Study of Neoadjuvant IV Cereport
Shaffrey, M.	Neurocrine Biosciences Inc.	\$21,915	New	A Phase I Study of a Recombinant Chimeric Protein
<b>Obstetrics &amp; Gynecology</b>				
Pinkerton, J.	Eli Lilly	\$12,752	Supp.	A Randomized, Parallel Treatment Study
Pinkerton, J.	Eli Lilly	\$5,956	Supp.	A Randomized, Parallel Treatment Study
Pinkerton, J.	Wyeth Labs	\$12,416	Supp.	Double-Blind, Randomized, Placebo & Historical Study
Pinkerton, J.	Wyeth Labs	\$7,978	Supp.	Prospective, Double-Blind, Randomized Study
Rice, L.	DHHS/NCI	\$87,480	Cont.	Estrogen Receptor Forms in Normal & Malignant Endometria
<b>Ophthalmology</b>				
Prum, B.	Pharmacia	\$1,655	Supp.	96T1PG005-Latanoprost-Timolol Fixed Combination
<b>Orthopaedics</b>				
Balian, G.	MicroAire	\$9,990	Supp.	Healing of Tendon Injuries
Damiano, D.	Medtronic	\$2,000	Supp.	Changes in Muscle Performance Motor Function
Wang, G.	Asif Fdn.	\$43,000	Cont.	Application of the Bone Homing Mechanism of Marrow Cells
Wang, G.	Zimmer Corp.	\$5,000	Supp.	Parametric Study Using Finite Element Analysis
<b>Otolaryngology</b>				
Winther, B.	Bristol-Myers Corp.	\$500	Supp.	A Multicenter Noncomparative Study of Celprozie
<b>Pathology</b>				
Felder, R.	Organon Teknika Corp.	\$17,750	Supp.	MDA Robotic Interface
Gonias, S.	Amer. Health Assist. Fdn.	\$199,523	New	Beta-Amyloid Peptide/Alpha2- Macroglobulin Interactions
Hussaini, I.	DHHS/NINDS	\$103,213	Cont.	Regulation of LRP Expression & Function in the CNS
<b>Pediatrics</b>				
Blanton, S.	U. of TX/Houston	\$29,263	New	Genetic Studies of Nonsyndromic Cleft Lip & Palate
Blanton, S.	U. of TX/Houston	\$17,987	Cont.	Mapping Genes of Neural Tube Defects
Donowitz, L.	Arnold Gold Fdn.	\$9,645	Supp.	Home Visit Program for Training Pediatric Residents
Gaston, B.	Genentech	\$6,300	Supp.	Epidemiologic Study of Cystic Fibrosis
Norwood, V.	Long Is. Jewish Med. Ctr.	\$710	Supp.	Multicenter Trial of Synsorb PK in E. Coli
Norwood, V.	March of Dimes	\$71,057	Cont.	Mechanisms of Aberrant Renal Development
Norwood, V.	Nat. Kidney Fdn.	\$5,500	New	ATIA Receptor Deficient Mice Mechanisms
Rogol, A.	Alkermes	\$581	Supp.	A Phase I/II, Multicenter, Open-Label Study
Rogol, A.	Genentech	\$2,850	Supp.	A Phase III, Randomized, Multicenter Study
<b>Pharmacology</b>				
Biltonen, R.	DHHS/NIGMS	\$245,829	New	Interactions of C2 Domain & Annexins with Lipid Bilayers
Haystead, T.	DHHS/NIDDK	\$209,318	Cont.	Protein Phosphatase I Regulations of Multiple Subunits
Lynch, K.	Merck, Sharp & Dohme	\$60,000	Supp.	Research Study Agreement
Rastinejad, F.	Von Humboldt-Stiftung Fdn.	\$5,033	Supp.	Feodor Lynen Fellowship for B. Wagner
<b>Physiology</b>				
Nakamoto, R.	DHHS/NIGMS	\$228,728	Cont.	Linking Functions of the FOF1 Synthase
Owens, G.	DHHS/NHLBI	\$243,719	Cont.	Regulation of Smooth Muscle Myosin Gene Expression
Shao, Z.	NSF	\$90,000	Cont.	Force Measuring Apparatus for the Study of Intermolecular Interactions
<b>Plastic Surgery</b>				
Rodeheaver, G.	Advanced Tissue Sciences	\$1,750	Supp.	A Prospective, Multicenter, Randomized, Single-Masked Study
Rodeheaver, G.	Imedex	\$14,000	Supp.	A Prospective, Multicenter, Randomized, Single-Masked Study
Rodeheaver, G.	Sofradim Production	\$3,700	Supp.	Evaluation of Saduc's/Cogent's Antiadhesion Agents
Rodeheaver, G.	U.S. Surgical Corp.	\$3,500	Supp.	Continued Performance Evaluation of New Sutures

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>Psychiatry</b>				
Clayton, A.	Kendle Int. Inc.	\$2,250	Supp.	Fluoxetine vs. Placebo in Panic Disorder
Clayton, A.	Eli Lilly	\$1,202	Supp.	Fluoxetine vs. Placebo in Panic Disorder
Clayton, A.	Glaxo	\$10,000	Supp.	Substitution of SSRI with Bupropion
Clayton, A.	Pfizer	\$2,046	Supp.	Double-Blind Comparison of Fixed Dose Setraline
McGarvey, E.	Va. Dept. of Health	\$26,341	New	Evaluation of Childhood Obesity Nutrition Intervention
<b>Radiology</b>				
Delange, E.	Advanced Magnetics	\$23,524	Supp.	Clinical Study of Feridex IV
Hillman, B.	PRA	\$1,152	Supp.	Independent Review Panel Services Contract
Kallmes, D.	Microvention	\$13,000	New	Endovascular Aneurysm Model in Rabbits
Matsumoto, A.	Cordis Endovascular Systems	\$2,500	Supp.	Study to Evaluate the Safety & Efficacy of a Renal Artery Stent
<b>Radiology Oncology</b>				
Rich, T.	RTOG	\$4,533	Supp.	Radiation Therapy Oncology Group Protocols
<b>Surgery</b>				
Daniel, T.	Convatech	\$2,125	New	Randomizing, Comparative, Single-Blind Clinical Trial
Kron, I.	DHHS/NHLBI	\$193,872	Cont.	Cardiovascular Surgery Research Training
Pruett, T.	Abbott Labs	\$9,830	New	A Clinical Experience with Abbott Cyclosporine
Pruett, T.	DHHS/NIGMS	\$40,036	Cont.	Fellowship for T. Crabtree
Pruett, T.	Novartis	\$31,262	Supp.	Randomized, Multicenter, Double-Blind, Double-Dummy Study
Sawyer, R.	Genentech	\$900	Supp.	Serum Ferritin as a Predictor
Spotnitz, W.	Convatech	\$26,975	Supp.	Various Trials
<b>Urology</b>				
Chung, L.	Johns Hopkins	\$14,956	Cont.	Prostate Cancer Spore
Chung, L.	Kluge Fdn.	\$200,000	Supp.	Human Prostate Cancer Metastasis Trials
Chung, L.	NASA	\$123,000	New	Microgravity Simulated Prostate Cell Culture
Howards, S.	Merck, Sharp & Dohme	\$20,000	Supp.	Double-Blind Randomized, Placebo-Controlled Study
Steers, W.	DHHS/NIDDK	\$159,515	Cont.	Bladder Hyperactivity after Obstruction Relief
Steers, W.	Elan Pharm. Res. Corp.	\$10,567	New	Open-Label Dose Titration Pilot Study
Steers, W.	Schering Corp.	\$3,827	New	Double-Blind Treatment of Oral Phentolamine
Tuttle, J.	DHHS/NIDDK	\$121,230	New	Urological Research Training for Physicians

## SCHOOL OF ARCHITECTURE

### Architectural History

Bluestone, D.	NPS	\$5,145	Supp.	Petersburg National Battlefield-Crater Battlefield
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### Urban & Environmental Planning

Collins, R.	State/Various	\$12,626	Supp.	Short-Term Public Service
Collins, R.	State/Various	\$1,300	Supp.	Short-Term Public Service
Dukes, E.	RESOLVE, Inc.	\$20,533	New	Just In Time Facilitation Support

## SCHOOL OF ENGINEERING AND APPLIED SCIENCE

### Biomedical Engineering

Skalak, T.	DHHS/NHLBI	\$173,655	Ren.	Arteriolar Adaptation to Hemodynamic Stresses In Vivo
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### Chemical Engineering

David, R.	NSF	\$93,222	Cont.	Elucidating the Role of Basic Promoters in Transition Metal Catalysis
Fernandez, E.	Novo Nordisk Pharmaceuticals	\$50,000	New	Toward Rational Design of Reversed-Phase Chromatog
Fernandez, E.	NSF	\$25,000	Cont.	Nuclear Magnetic Resonance Analysis of Protein Conformation
Fernandez, E.	UpJohn	\$10,000	New	Analysis of Chromatography by Magnetic Resonance
Ford, R.	Amer. Chem. Soc.	\$6,500	Supp.	MRI Analysis of Bacterial Transport

### Civil Engineering and Applied Mechanics

Graham, L.	NSF	\$210,000	New	Micro-Scale Based Reliability Analysis of Mechanical & Flow-Related Behavior
Graham, L.	NSF	\$10,000	Supp.	Influence of Random Microstructure on Stress
Lung, W.	U. of MD.	\$59,000	Ren.	Water Quality Modeling of Patuxent Estuary
Noor, A.	Navy	\$40,000	Cont.	Sensitivity Analysis for Dynamic Failure & Damage
Pindera, M.	NASA	\$42,375	New	Internally-Cooled Functionally-Graded Cylinders
Smith, J.	EPA	\$121,763	Supp.	Natural Remediation of Contaminated Soil & Groundwater

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>Computer Science</b>				
Grimshaw, A.	U. of CA/San Diego	\$140,000	Cont.	Supporting Wide Area Computational Science
Grimshaw, A.	U. of CA/San Diego	\$100,065	Supp.	Supporting Wide Area Computational Science
Liebeherr, J.	NSF	\$5,000	Supp.	Hypercast—Highly Scalable Multicast Communications
Liebeherr, J.	NSF	\$5,000	Supp.	Integrated Resource Management for Integrated Services Internet
<b>Dean's Office</b>				
Lasiacka, I.	Va. Space Grant Cons.	\$5,000	Supp.	Uniform Stability & Optimal Control
<b>Electrical Engineering</b>				
Aylor, J.	Adv. Tech. Inst.	\$35,000	New	VHDL 200X Program
Bechta-Dugan, J.	NASA	\$230,000	New	Aviation Systems Safety Assessment
Crowe, T.	JPL	\$100,683	New	Development of Low Noise Millimeter & Submillimeter Wave GaAs Devices
Crowe, T.	U. of MD.	\$45,000	Supp.	Research Activities in Support of Army Research
Gelmont, B.	Army	\$67,988	New	Nanostructures for Very High Frequency Electronics
Johnson, B.	CIT	\$85,000	New	Technology Development Center
Johnson, B.	NRC	\$100,000	Supp.	Embedded Real-Time Safety-Critical Digital Systems
Lin, Z.	ONR	\$54,196	New	Exponentially Unstable Plants with Saturating Actuators
Stan, M.	NSF	\$100,000	Cont.	Advances in Theory Design Methods & CAD for Low-Power VLSI
Towe, E.	Army	\$150,000	Supp.	Experimental Study of (In, GA, A1)AS/GAAS
<b>Materials Science</b>				
BaragiolaR.	NASA	\$55,000	New	Laboratory Simulations of Radiation Effects
Dorning, J.	NASA	\$92,000	Supp.	Advanced Computational Methods
Gangloff, R.	NASA	\$343,937	New	Damage-Tolerance of Light Aerospace Alloys
Gangloff, R.	ONR	\$195,210	New	Laboratory for Advanced Characterization of Fatigue
Gangloff, R.	ONR	\$26,000	Supp.	Mechanisms of Crack Tip Hydrogen Embrittlement
Hull, R.	IBM	\$56,154	Supp.	Study of Materials & Device Degradation Modes
Johnson, R.	NASA	\$34,700	Supp.	Erosion & Alteration of Interstellar & Interplanetary Grains
Johnson, W.	NSF	\$117,136	Ren.	Diffusional Phase Transformations in Small Systems
Kelly, R.	Va. Space Grant Cons.	\$5,000	New	Fellowship for K. Lewis
Scully, J.	Va. Trans. Res. Ctr.	\$118,489	New	Laboratory Testing of Selected Metallic Reinforcing Bars
Stoner, G.	CIT	\$25,727	New	CESE Assistance to Virginia Industry
Taylor, S.	Air Force	\$344,731	Supp.	Role of Coating & Substrate Heterogeneities
<b>Mechanical, Aerospace and Nuclear Engineering</b>				
Allaire, P.	Medquest	\$157,171	Supp.	Artificial Heart Pump Development
Crandall, J.	Army	\$75,000	New	Effects of Boots on Land Mine Outcomes
Crandall, J.	Info. Network Systems	\$19,000	Supp.	Escape Systems Program Support
Haj-hariri, H.	Va. Space Grant Cons.	\$7,495	New	Fellowship for A. Solowey
Knospe, C.	NASA	\$10,654	Supp.	Reaction Wheel Jitter Reduction
Laufer, G.	Va. Space Grant Cons.	\$8,500	New	Fellowship for S. O'Donnell
Laufer, G.	Va. Space Grant Cons.	\$8,500	New	Fellowship for M. Ashiru
Laufer, G.	Va. Space Grant Cons.	\$4,000	New	Fellowship for S. Timmester
McDaniel, J.	NASA	\$50,000	Supp.	Shock-Jet Interaction Enhancement
Norris, P.	Va. Space Grant Cons.	\$5,000	New	Fellowship for J. Mcleskey
Pilkey, W.	DOT	\$900,999	Supp.	The Biomechanical Response of Human Surrogates
Pilkey, W.	Va. Space Grant Cons.	\$5,000	New	Fellowship for S. Duma
Wood, H.	NASA	\$27,055	New	Tunable Acoustic Liner Investigations
<b>Systems Engineering</b>				
Krzysztofowicz, R.	NOAA	\$150,000	Supp.	Probabilistic Hydrometeorological Forecast
<b>Technology, Culture and Communications</b>				
Gorman, M.	NSF	\$10,000	Supp.	Inventing for a Better Global Environment
Gorman, M.	NSF	\$10,000	Supp.	REU Supplement
<b>SCHOOL OF NURSING</b>				
Blank, M.	DHHS/NIMH	\$19,258	Supp.	Performance Outcome Measurement System Evaluation
Keeling, A.	DHHS/NINR	\$83,326	New	An Historical Investigation of Coronary Care Units
Lancaster, B.	DHHS/HRSA	\$51,771	Ren.	Professional Nurse Traineeship

## LATEST FACULTY HONORS

**Hank Shugart** has been elected as a foreign member of the Russian Academy of Science for his work on the boreal forests of Russia. With his election, he becomes the first foreign scientist in the field of ecology to receive this honor. The Russian Academy of Science has existed for 275 years; it is one of the oldest in the world.

**Robert E. Scott**, dean of the School of Law and Lewis F. Powell, Jr. professor of law, was inducted into the American Academy of Arts and Sciences.

**Ted Steiner**, assistant professor of Geographic Medicine in the department of Internal Medicine, has been awarded a Career Award in the Biomedical Sciences by the **Burroughs Wellcome Foundation**. The award provides up to \$574,000 "to foster the development and productivity of biomedical researchers who are early in their careers to help them make the critical transition to becoming independent investigators." The awardees were chosen on the basis of a research proposal and an interview by a panel of established scientists.

**Christopher Huston**, fellow in infectious disease in the Department of Medicine has received a \$200,000 Howard Hughes Medical Institute's Postdoctoral Research Fellowship for Physicians Award. Huston is one of forty-one young physician-investigators to receive this award nationwide. His grant is entitled: "Characterization of the mechanism of apoptotic killing by entamoeba histolytica". ■

## TRAIN SAFETY RESEARCH

Work is underway for the Federal Railroad Administration (FRA) by the Center for Safety-Critical Systems in the School of Engineering and Applied Science, under the direction of **Ted C. Giras**, and **Barry W. Johnson**, based in the Electrical Engineering Department.

This research is in the field of advanced communication-based train control systems known as Positive Train Control (PTC) and High Speed Passenger Railroad systems, and it will support the development of public policy on train safety regulatory performance for new processor-based train control systems. ■

## ENGINEERING SCHOOL NEWS

### Selected Honors and Awards

**Jeff Crandall** has been elected President of the Association for the Advancement of Automotive Medicine.

**George Gillies** was named Fellow of the Institute of Physics, and was also elected as a Chartered Physicist in the Institute.

**Carl Knospe** received an honor paper award at the 6th International Symposium on magnetic bearings in Cambridge, Mass.

**Eric Maslen** received the University's Harrison Award for student advising.

The National Science Foundation has awarded \$1 M. to **Andrew Grimshaw** and **Marty Humphrey** for a proposal "Supporting Complex Application Requirements in Meta-systems". The grant will support the development of a multi-stage advice and performance prediction tool for parallel applications that require simultaneous access to large, powerful computers across the U.S. and around the world. Robust support for fault-tolerance in this computing model will also be developed to address the question of how quickly an application can recover when machines or networks go down. ■

## researchnews

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## FEDERAL UPDATE

*By James Savage*

Congress is now working on its appropriations bills that will provide federal funding for many of the University's student financial aid and research programs. In a recently communication with the Virginia congressional delegation, Vice President for Research Gene Block emphasized U.Va's support for student aid and Pell Grants in particular, and for the National Institutes of Health, which are the largest source of federal research funding for the University.

The University has also requested that the delegation support the National Science Foundation, NASA, the Department of Defense's basic research program, and the Department of Energy. Budgets for these programs and agencies are expected to be constrained due to spending caps set in the 1997 Balanced Budget agreement. President Clinton's budget request for NIH, for example, calls for a two percent increase. Unless the spending caps are raised, some research agencies may experience cuts in spending. ■