

## Y2K UPDATE

"Thanks to whole-hearted efforts by faculty, staff and administration in the U.Va. academic and research community, the Y2K Compliance Project has made considerable progress since last May when the effort took off.

Essentially all reporting units have done an initial assessment of their preparedness, and many have found it timely or necessary to upgrade or replace certain hardware and software elements. During the next several months renewed emphasis will be placed on assuring that all mission-critical and all patient and health/safety issues have been pinpointed and will be ready on time. These latter issues are particularly important for the Medical Center, the Schools of Medicine, Engineering and Applied Science, and the College of Arts & Sciences. The respective deans and departmental chairs have verified their readiness efforts and are ready for the audit teams to inspect, if they are selected for a Y2K Compliance audit."

*Robert E. Reynolds, MD,  
Vice Provost for Health Sciences and  
Interim Chief Information Officer*

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## Major DARPA Award to Develop Nanoprinting

Robert Hull in Materials Science is heading a research project entitled "Development of a Nanoscale Printing Technology" that is part of the "Molecular Level Printing" program at DARPA. This new grant is for \$2.7 million over four years. Co-PI's include Dana Elzey and Haydn Wadley of Materials Science, and Michael Reed and John Bean of Electrical Engineering, Julia Hsu of Physics, and Michael Shur of Rensselaer Polytechnic Institute.

The purpose of the program is to develop new methods for printing very fine patterns over flat and curved surfaces using techniques with strong analogies to conventional printing. Minimum feature sizes are 100 nm, or equivalent to hundreds of atoms. The technique will use the focused ion beam instrument at U.Va. (funded by the National Science Foundation, the School of Engineering and Applied Science and the Vice President for Research and Public Service) to micro-machine hundreds of thousands of features onto a surface.

Collaborative research with George Whiteside at Harvard on self-assembling monolayers for the pattern transfer, and with Susan Brandow and colleagues at the Naval Research Laboratory on electrochemical deposition methods is underway. New techniques and instrumentation will be developed to allow pattern placement accuracy at the tens of nanometers level. ■



Robert Hull (standing) with graduate student, David Longo.

Tom Cogill

## NEWS FROM WASHINGTON

Federal Relations Update  
from James Savage

A proposed revision in the Office of Management and Budget's Circular A-110 would enable individuals and corporations to use the Freedom of Information Act to gain access to data generated by federal research grants, prior to peer review and publication. In a letter opposing the revision, Vice President Gene Block described the proposal as one "that would have a profoundly negative impact on scientific discovery and the research process."

The revision is firmly opposed by the university research community. ■



## PATENT FOUNDATION NEWS

by Marie Kerbeshian

The Patent Foundation announces the formation of its Patenting Department. Two patent attorneys have joined us to provide inventors with responsive, face-to-face assistance in protecting intellectual property developed at U.Va.

Brian Suffredini, J.D., joins us from the New York law firm of Skadden, Arps, Slate, Meagher & Flom. Brian is an aeronautics engineer (B.S., California Polytechnic State University) with a law degree from Boston College.

John Breen, Ph.D., J.D., is from the Indiana firm of Barnes & Thornburg. John majored in biology at the University of Notre Dame, and he completed his doctorate in molecular biology from Indiana University before receiving his law degree from that institution. ■

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>ADMINISTRATION</b>				
<b>Financial Aid</b>				
Hubbard, Y.	USDE	\$7,225	Supp.	Pell Grant/FY99
<b>Papers of George Washington</b>				
Chase, P.	NHPRC	\$143,661	Ren.	The Papers of George Washington
<b>COLLEGE OF ARTS AND SCIENCES</b>				
<b>Astronomy</b>				
Chevalier, R.	NASA	\$60,000	New	Supernova Remnants: Interstellar & Circumstellar
Chevalier, R.	NASA	\$60,000	New	Models of Pulsar Nebulae
Majewski, S.	JPL	\$170,416	New	Distant Halo Giant Stars for SIM Astrometric Grid
O'Connell, R.	STScI	\$29,474	New	A Complete Census of Hot Stars in Globular Clusters
<b>Biology</b>				
Block, G.	DHHS/NINDS	\$272,414	Cont.	Neural Basis for Circadian Organization
Grace, M.	Univ. of Texas	\$131,768	Cont.	Biological Detection Systems
Grainger, R.	DHHS/NICHD	\$36,700	Cont.	Fellowship for M. Offield
Keller, R.	DHHS/NCRR	\$254,750	New	Shared Instrumentation–Confocal Unit
Rissman, E.	DHHS/NIMH	\$20,188	Cont.	Fellowship for H. Fugger
Rissman, E.	UCLA	\$80,380	New	Genetic Determinants of Brain Sexual Differentiation
<b>Callaloo</b>				
Rowell, C.	Dutch Language Union	\$1,082	Supp.	Caribbean Literature from Suriname
Rowell, C.	Fdn. for Prod. Trans. Dutch	\$455	New	Caribbean Literature from Suriname
Rowell, C.	Lannan Fdn.	\$30,000	New	Callaloo Writing Workshop
<b>Center for Survey Research</b>				
Guterbock, T.	Assoc. of Coll. & Res. Libraries	\$33,705	New	1998 ACRL Library Statistics Survey
<b>Chemistry</b>				
Fraser, C.	DuPont	\$25,000	New	DuPont Young Professor Grant
Fraser, C.	NSF	\$80,000	Cont.	Metal Core Macromolecules with Tunable Properties
Harman, W.	DHHS/NIGMS	\$232,042	Cont.	Functionalization of Aromatic Heterocycles
Harrison, A.	NSF	\$85,000	Cont.	Adsorbate Photochemical Dynamics
Hecht, S.	DHHS/NCI	\$10,000	Supp.	Natural Products Discovery–Nuclear & Signaling Targets
Marshall, J.	DHHS/NIGMS	\$215,812	Cont.	Synthesis of Tumor Inhibitory Compounds
Pu, L.	ONR	\$120,000	New	Chiral Nonlinear Optical Polymers Containing Transition Metal Complexes
Shen, T.	Argonex	\$20,763	Supp.	Targeting Agents for Prostate Cancer
<b>Environmental Sciences</b>				
Bowers, M.	NSF	\$100,000	New	Experimental Tests of Within & Between Patch Processes
Bowers, M.	NSF	\$9,806	New	Biodiversity Workshop–Blandy Farm
Cosby, B.	NPS	\$100,000	Cont.	Analysis of Air Quality & its Effects on Terrestrial & Aquatic Resources
Cosby, B.	Fla. Int. Univ.	\$66,661	Supp.	Calibration & Application of Fathom
Galloway, J.	Univ. of Md.	\$57,503	Cont.	Assessment of Forest Disturbance in the Mid-Atlantic Region
Hayden, B.	NSF	\$5,386	Supp.	IPA Assignment
Justice, C.	NASA	\$284,550	New	Land Cover & Land Use Change Scientist Support
Justice, C.	NASA	\$100,000	Supp.	Central African Regional Project for the Environment
Justice, C.	NASA	\$15,000	Supp.	Land Cover & Land Use Scientist Activities
Macko, S.	NOAA	\$15,000	New	Stock Assessment Mortality Estimation
McGlashery, K.	EPA	\$16,858	New	Star Fellowship for I. Buffam
Porter, J.	NSF	\$560,000	Cont.	Contribution of Bacteria & Fungi to Organic Matter
Ray, G.	Henry Fdn.	\$10,000	New	Conservation of Coastal Environments
Wiberg, P.	ONR	\$15,000	Supp.	The Role of Storm Resuspension
Zieman, J.	Fla. Int. Univ.	\$29,943	Cont.	Seagrass Monitoring for the Florida Keys
<b>Graduate Arts and Sciences</b>				
Huskey, R.	NSF	\$157,500	Cont.	Graduate Research Fellowship Program
<b>Mathematics</b>				
Dunkl, C.	NSF	\$10,000	New	International Conference on Special Functions
Parshall, K.	Academic Press	\$2,250	Supp.	Historia Mathematica
Pitt, L.	SCHEV	\$75,410	New	The Virginia Geometry Project
<b>Physics</b>				
Hsu, J.	DOE	\$80,000	Cont.	Nanometer Scale Studies of Defects in Photovoltaic Materials
Lindgren, R.	SCHEV	\$23,020	New	Research Experience & Curriculum Enhancement for Teachers
McCarthy, J.	American Univ.	\$42,667	New	Support for S. Bueltman
McCarthy, J.	TJNL	\$24,965	Cont.	On Site Coordinator at the Thos. Jefferson Nat. Accelerator Facility
McCarthy, J.	TJNL	\$9,500	Supp.	Superconducting Magnet
McCarthy, J.	TJNL	\$565	Supp.	On-Site Coordinator at TJNAF
Minehart, R.	DOE	\$267,000	Supp.	Experiments on the Nuclear Interactions of Pions
Norum, B.	DOE	\$225,000	Cont.	Nuclear Studies with Intermediate Energy Probes
Pocanic, D.	NSF	\$196,000	Cont.	Research in Intermediate Energy Physics

Principal Investigator	Sponsor	Amount	Type	Project Title
Thornton, S.	Appalachia Ed. Labs	\$5,000	New	Preservice K-8 Teachers Conference
Thornton, S.	Va. Dept. of Ed.	\$5,000	New	Preparing Va.'s K-8 Math Teachers
<b>Psychology</b>				
Allen, J.	Harvard	\$49,174	Cont.	Drug Use & Mental Health & Family Life
Gold, P.	Psych. Soc.	\$2,500	Supp.	Psychonomic Society Editorship
Hill, D.	DHHS/NIDCD	\$510,188	New	Peripheral Sensory System Development & Regeneration
Patterson, C.	Univ. of Miami	\$21,369	New	Developmental Pathways Into & Out of Risk
Proffitt, D.	NASA	\$125,000	New	When Are the Immersive Displays Useful
Sollars, S.	DHHS/NIDCD	\$52,850	Cont.	Function & Organization of the Geniculate Ganglion
<b>Religious Studies</b>				
Satlow, M.	Bar Ilan Univ.	\$1,500	New	Jerusalem Inscriptions from Antiquity
<b>Virginia Center for Digital History</b>				
Thomas, W.	NPS	\$10,000	New	Valley of the Shadow: Public Electronic Access
Thomas, W.	Various	\$1,500	New	Short-Term State Project
<b>Virginia Institute for Theoretical Astronomy</b>				
Balbus, S.	NASA	\$57,000	Supp.	Magnetohydrodynamics of the Solar Nebula
Chevalier, R.	NASA	\$45,000	New	Supernova-Influenced Star Formation
Sarazin, C.	NASA	\$19,927	New	Cooling/Cold Gas, & the Dynamical History of Clusters
<b>Virginia Graduate Marine Science Consortium</b>				
Rickards, W.	NOAA	\$1,359,610	Ren.	National Sea Grant College Program, 1999-2000
<b>CURRY SCHOOL OF EDUCATION</b>				
<b>Curriculum, Instruction and Special Education</b>				
Matkins, J.	SCHEV	\$48,830	New	Concept in Life Sciences: Ecology & Energy
Snell, M.	USDE	\$129,208	Cont.	Early Intervention & Pre-School Personnel Training
Trent, S.	Nat. Acad. of Ed.	\$20,000	Supp.	Spencer Postdoctoral Fellow
<b>Human Services</b>				
Arnold, B.	NATA Res. Ed. Fdn.	\$33,292	New	Effects of Creatine Supplementation on Cell Water Content
Novak, R.	Va. Dept. of Ed.	\$30,000	New	Expansion of Master's Degree Program in Speech
Pianta, R.	DHHS/NICHD	\$366,606	Cont.	Study of Early Child Care
Schoeny, Z.	Va. Dept. of Ed.	\$56,284	New	Curricular Modules for Technology-Enriched Administrators
<b>HEALTH SCIENCES CENTER</b>				
<b>Anesthesiology</b>				
Durieux, M.	DHHS/NIGMS	\$101,523	Cont.	Molecular Studies of Anesthetic-Muscarinic Interaction
Durieux, M.	Elan Pharm.	\$7,350	New	Multicenter, Randomized, Double-Blind Study
Durieux, M.	Elan Pharm.	\$1,000	Supp.	Multicenter, Randomized, Double-Blind Study
Hahn, Y.	Amer. Dig. Health Fdn.	\$50,000	New	Mechanisms of Immune Dysregulation by HCV Core
<b>Biochemistry</b>				
Allis, C.	DHHS/NIGMS	\$389,192	Ren.	Enzymology & Biological Function of Histone Acetylation
Allis, C.	DHHS/NIGMS	\$30,256	New	Postdoctoral Fellowship for B. Strahl
Auble, D.	DHHS/NIGMS	\$227,253	Cont.	Molecular Analysis of a Yeast Transcriptional Regulator
Hamlin, J.	DHHS/NIGMS	\$327,212	Ren.	Replication of Mammalian Chromosomes
Li, R.	March of Dimes	\$50,000	Cont.	Regulation of DNA Replication Following DNA Damage
Lynch, K.	DHHS/NIDA	\$19,944	New	Fellowship for S. Hooks
<b>Biomedical Engineering</b>				
Guilford, W.	DHHS/NIAMS	\$161,418	New	Molecular Mechanics of Myosin Filaments
<b>Cancer Center</b>				
Parsons, J.	ACS	\$225,000	Ren.	ACS Institutional Research Grant
<b>Cardiovascular Research Center</b>				
Duling, B.	DHHS/NHLBI	\$566,684	Cont.	Basic Cardiovascular Research Grant
<b>Cell Biology</b>				
Castle, J.	DHHS/NIDCR	\$284,489	Ren.	Pathways & Regulation of Salivary Secretion
Desimone, D.	DHHS/NICHD	\$67,500	Cont.	Cell Adhesion & Matrix in Vertebrate Development
Pfister, K.	DHHS/NIGDS	\$195,625	Cont.	Organelle Movement in Fast Axonal Transport
White, J.	Trimeris	\$67,692	New	Trimeris Research Agreement
<b>Center for the Study of Mind and Human Interaction</b>				
Volkan, V.	Winston Fdn. for World Peace	\$58,000	New	Turkish Military Dialogue
<b>Dean's Office</b>				
Sturgill, T.	Howard Hughes	\$38,456	Supp.	HHMI Occupancy Fees
<b>Family Medicine</b>				
Meixel, S.	DHHS/HRSA	\$178,200	New	Family Medicine Graduate Training Grant
Morse, R.	Rbt. W. Johnson Fdn.	\$301,602	Cont.	Virginia Smokeless States Initiative
<b>General Clinical Research Center</b>				
Carey, R.	DHHS/NCRR	\$3,038,851	Supp.	General Clinical Research Center
Weltman, A.	Pfizer	\$44,262	Supp.	Double-Blind, Placebo-Controlled Dose Study

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>Health Evaluation Science</b>				
Abbott, R.	Univ. of Hawaii	\$16,334	Cont.	Biostatistics Core—University of Hawaii Nursing
Abbott, R.	Pacific Health Res. Inst.	\$105,068	New	Biostatistics Care for the Study of Neurodegenerative Disorders
Connors, A.	Health Serv. Fdn.	\$51,000	Supp.	Agreement with the Cerner Corporation
Engelhard, C.	Va. Dept. of Med. Asst.	\$19,800	New	Virginia Medicare/Medicaid Program
Knaus, W.	QuadraMed Corp.	\$29,630	Supp.	Consulting Agreement
<b>Internal Medicine</b>				
Barnett, M.	Abbott Labs	\$11,884	New	Randomized, Double-Blind, Placebo-Controlled Study
Beller, G.	Fujisawa Healthcare	\$17,250	New	Development of a Dual Isotope Imaging Approach
Bergin, J.	Duke Clin. Res. Inst.	\$2,400	Supp.	Sudden Cardiac Death in Heart Failure
Bergin, J.	Novartis	\$739	Supp.	Multicountry, Randomized, Double-Blind Study
Bergin, J.	Pfizer	\$3,450	Supp.	Prospective, Randomized Amlodipine Survival Study
Bickston, S.	Schering Plough	\$10,000	Supp.	Safety-Tolerance & Efficacy of Treatment
Bolton, W.	Amgen	\$5,686	Supp.	Effects of Normal vs. Anemic Hematocrit
Bolton, W.	Amgen	\$2,000	Supp.	Effects of Normal vs. Anemic Hematocrit
Bolton, W.	Novartis	\$15,855	Supp.	Effects of Ace Inhibition vs. AT1 Receptor Antagonists
Cohen, R.	ECOG	\$2,757	Supp.	Oncology Statistics
Cohen, R.	Glaxo	\$15,000	New	A Pilot Study of Weekly Vinorelbine & Paclitaxel Treatments
Cohen, R.	Ligand	\$2,500	New	A Multicenter, Phase II Evaluation of Targretin
Cohen, R.	SmithKline	\$6,970	Supp.	Double-Blind, Multicenter, Parallel Study
Cominelli, F.	Celltech	\$24,975	Supp.	A Phase II, Multi-National, Double-Blind Study
Cominelli, F.	Celltech	\$5,108	Supp.	A Phase II, Multi-National, Double-Blind Study
Cominelli, F.	Celltech	\$400	Supp.	A Phase II, Multi-National, Double-Blind Study
Dimarco, J.	SERC	\$2,225	Supp.	Atrial Fibrillation Follow-Up Investigation
Donowitz, G.	Pfizer	\$26,284	Supp.	Randomized, Open-Label, Comparative Study
Donowitz, G.	Pharm. Res. Assoc.	\$8,612	Supp.	Randomized, Multicenter, Double-Blind Study
Donowitz, G.	SmithKline	\$7,500	Supp.	Control of the Incidence of Vancomycin
Enelow, R.	Covance	\$13,054	Supp.	Efficacy of Avonex in the Treatment of Idiopathic Fibrosis
Enelow, R.	Covance	\$8,436	Supp.	Efficacy of Avonex in the Treatment of Idiopathic Fibrosis
Gwaltney, J.	Boehringer Ingelheim	\$16,655	Supp.	Double-Blind, Placebo-Controlled Study
Haisenedler, D.	DHHS/NIMH	\$75,372	Cont.	CRH/VP/Glucocorticoid Receptor mRNA Regulation
Hayden, F.	Boehringer Ingelheim	\$21,556	New	Double-Blind, Placebo-Controlled Study
Hayden, F.	Glaxo	\$59,500	Supp.	Double-Blind, Placebo-Controlled Study
Hayden, F.	Hoffman La Roche	\$10,046	Supp.	Double-Blind, Placebo-Controlled Study
Hayden, F.	Roche Products	\$12,587	Supp.	Double-Blind, Placebo-Controlled Study
Hayden, F.	Roche Products	\$6,698	Supp.	Study of the Pharmacokinetics of the Neuraminidase Inhibitor
Hayden, F.	Roche Products	\$4,196	Supp.	Study of the Pharmacokinetics of the Neuraminidase Inhibitor
Johns, D.	Merck	\$3,428	Supp.	Losartan vs. Patients with High Blood Pressure
Kaul, S.	DuPont	\$13,900	Supp.	Quantification of Myocardial Perfusion
Kaul, S.	DuPont	\$300	Supp.	Quantification of Myocardial Perfusion
Koenig, S.	Glaxo	\$2,905	Supp.	Randomized, Double-Blind, Comparison Study
Koenig, S.	PPD Pharmaco, Inc.	\$3,500	New	Comparison of the Safety & Efficiency of Clarithromicin
Linden, J.	DHHS/NHLBI	\$222,629	Cont.	Allosteric Enhancement of A1 Adenosine Receptors
Mandell, G.	Bayer	\$82,540	New	Moxifloxacin & Human Neutrophils
Moenter, S.	DHHS/NICHD	\$103,033	Cont.	Cellular & Molecular Bases for Rhythmic GNRH Release
Mounsey, J.	Univ. of Washington	\$3,690	Supp.	Antiarrhythmics vs. Implantable Defibrillators
Myers, C.	Army	\$282,80	New	Mitochondrial Apoptosis: A New Foundation
Obrig, T.	DHHS/OFM	\$22,662	Supp.	Shiga Toxin Mode of Action in Bacterial Diseases
Peura, D.	Boehringer Ingelheim	\$413	Supp.	Nasogastric Administration of Amezazole
Peura, D.	Tap Holdings	\$2,363	Supp.	Study to Evaluate the Effects of Lansoprazole 15
Peura, D.	Tap Holdings	\$324	Supp.	Study to Evaluate the Effects of Lansoprazole 15
Powell, S.	Amer. Digestive Health Fdn.	\$50,000	New	Characterization of E-Cadherin Alterations
Powers, E.	Progressive Angioplasty	\$26,150	Supp.	Paragon Elective or Acute Stenting Trial
Peck, R.	Pharm. Res. Assoc.	\$2,501	Supp.	Independent Review Panel
Petri, W.	DHHS/NIAID	\$207,691	Ren.	Gene Expression in Entamoeba Histolytica
Petri, W.	TechLab	\$136,862	Cont.	Serodiagnosis & Immunoprophylaxis or Amebiasis
Powers, E.	Otsuka	\$975	Supp.	Randomized, Double-Blind, Placebo-Controlled Study
Scheld, W.	Convance	\$5,410	Supp.	Industry/Various
Scheld, W.	Glaxo	\$24,202	Supp.	Industry/Various
Scheld, W.	Schering-Plough	\$5,350	Supp.	Industry/Various
Siragy, H.	Novartis	\$45,000	Supp.	Effects of Inhibition of Cytochrome P450
Steiner, T.	DHHS/NIAID	\$88,020	New	Isolation & Characterization of an Interleukin-8-Releasing Protein
Sung, S.	AHA	\$55,000	New	Dendritic Cells, T Cell Episodes, Allergy & Asthma
Thread, J.	Acute Therapeutics	\$8,201	Supp.	Safety & Efficacy of Surfacing
Tucker, A.	DHHS/NHLBI	\$83,430	Cont.	Regulation of Adenosine Receptor Signaling
Vance, M.	Henri Beaufour	\$28,136	Supp.	A Phase II/III, Open, Multi-Center Study
Vance, M.	Henri Beaufour	\$22,403	Supp.	A Phase II/III, Open, Multi-Center Study
Vance, M.	Novartis	\$13,871	New	Validation of Acromegally Quality of Life-Style Questionnaire
Vance, M.	Sensus	\$42,829	Supp.	Six Week, Double-Blind, Placebo-Controlled Study
Vance, M.	Sensus	\$25,583	Supp.	Six-Week, Double-Blind, Placebo-Controlled Study
Veldhuis, J.	DHHS/NIA	\$281,805	Cont.	Aging GH Axis in Postmenopausal Women
Veldhuis, J.	DHHS/NICHD	\$199,171	Cont.	Hormone Action in the Ovary
Veldhuis, J.	Univ. of Tx. Med./Dallas	\$16,066	New	Pharmacological Dissection of HPA Axis in Alcoholism
Williams, M.	Novartis	\$9,061	New	A Randomized, Double-Blind, Multicenter Study
Yoshida, C.	Solvay	\$6,981	New	Double-Blind, Placebo-Controlled, Multicenter Study

Principal Investigator	Sponsor	Amount	Type	Project Title
<b>Law, Psychiatry and Public Policy</b>				
Bonnie, R.	Dept. of Mental Health	\$495,000	New	Forensic Evaluation & Mental Health Law Training
<b>Markey Center for Cell Signaling</b>				
Brautigam, D.	DHHS/NCI	\$143,664	New	Rapamycin Blockage of Protein Phosphatase Signaling
Lannigan, D.	Army	\$120,004	Supp.	In Vitro Evolution of Steroid Receptors
Macara, I.	DHHS/NIGMS	\$278,870	Ren.	The RAN GTPASE-Role in Cell Cycle Regulation
Macara, I.	DHHS/NIGMS	\$31,720	New	Postdoctoral Fellowship for A. Brownawell
<b>Medical Education</b>				
Fang, W.	VPPI	\$20,390	New	Evaluating the Mid-Atlantic Addiction Technology Transfer Center
<b>Microbiology</b>				
Beyer, A.	DHHS/NIGMS	\$224,335	Cont.	RNA Processing & Nuclear Ribonucleoprotein
Beyer, A.	NSF	\$200,000	Ren.	Ultrastructural Analysis of RNA Synthesis & Processing
Christman, M.	DHHS/NCI	\$173,251	New	Repair of Camptothecin-Induced DNA Damage in Yeast
Christman, M.	DHHS/NCI	\$5,974	Supp.	Repair of Camptothecin-Induced DNA Damage in Yeast
Christman, M.	DHHS/NIGMS	\$272,769	Cont.	Biological Functions of Topoisomerase I in S Cerevisial
Engel, D.	DHHS/NCI	\$103,162	Cont.	Adenovirus 243R E1A Protein & Cellular Transcription
Goldberg, J.	DHHS/NIAID	\$7,307	Supp.	Research Supplement for Underrepresented Minorities
Kupfer, G.	DHHS/OFM	\$25,003	Supp.	Molecular Pathophysiology of Fanconi Anemia
Lorenz, U.	ACS	\$375,000	New	Regulation of Signal Transduction Events by SHP-1
Lorenz, U.	Jeffress	\$10,000	Cont.	The Mechanism(s) & Functional Implications of SHP-1's Action in T Cells
Parsons, J.	DHHS/NCI	\$257,834	New	Focal Adhesion Kinase Signaling
Rekosh, D.	DHHS/NIAID	\$309,134	Cont.	Anti-REV Gene Therapy for HIV-1 Infection
Smith, M.	DHHS/NIGMS	\$290,040	Cont.	Histone Gene Expression in Yeast
Weber, M.	DHHS/NCI	\$773,543	New	Cell Signaling in Prostate Cancer Progression
Weber, M.	DHHS/NCI	\$233,478	Cont.	Signal Transduction by Tyrosine Kinases
<b>Molecular Physiology</b>				
Owens, G.	Cardiogene	\$137,758	New	Development of Smooth Muscle Myosin Heavy Chain
<b>Neurology</b>				
Fountain, N.	Hoechst Roussel	\$586	Supp.	Safety & Efficacy Evaluation of Oral Vigabatrin
Fountain, N.	Parke Davis	\$15,000	New	Protocol 1008-035-027
Fountain, N.	United Chem./Belgium	\$2,156	Supp.	Protocol RPCE97D0401
Harrison, M.	DHHS/NINDS	\$152,709	Cont.	Regulation of Striatal Neurons by Acetylcholine
Harrison, M.	Rochester	\$5,445	Supp.	CARE-HD
Johnston, K.	Columbia	\$58,000	Supp.	Gain Protocol
Johnston, K.	Rush Presbyterian	\$3,180	Supp.	African American Antiplatelet Stroke Prevention
Parker, W.	Mitokor	\$17,500	Supp.	Amendment #2 to Collaborative Research Agreement
Mangan, P.	DHHS/NINDS	\$97,932	Cont.	Evolution of Altered Inhibition in Epilepsy
Parker, W.	Mitokor	\$17,500	Supp.	Amendment #2 to Collaborative Research Agreement
Quigg, M.	Clintrials	\$1,404	Supp.	Long-Term, Open-Label, Multicenter Study
Quigg, M.	Abbott Labs	\$3,936	New	Open-Label Extension Study of Tiagabine HCL
Trugman, J.	Rhone-Poulenc	\$6,300	New	Protocol RP54274X-320
Wooten, G.	APDA	\$6,250	Supp.	APDA Information & Referral Center
Wooten, G.	Columbia Univ.	\$13,996	New	Earlier vs. Later L-Dopa in Parkinson's Disease
<b>Neuroscience</b>				
Steward, O.	Brigham & Womens	\$195,373	Supp.	Neural Development Under Conditions of Space Flight
Tuttle, J.	DHHS/NIDDK	\$121,230	New	Basis for Hyperactive Bladder
Desmond, N.	Johns Hopkins	\$25,053	Ren.	NMDA Receptor Function in Lead Neurotoxicity
<b>Neurosurgery</b>				
Helm, G.	Sofamor Danek	\$60,000	New	BMP Gene Therapy
Helm, G.	Sofamor Danek	\$40,000	Supp.	BMP Gene Therapy
Jane, J.	Parke-Davis	\$9,000	Supp.	Randomized, Double-Blind, Placebo-Controlled Study
Kassell, N.	Mayo	\$13,600	Supp.	Intracranial Aneurysms-UVa Patient Care
Kassell, N.	Mayo	\$4,100	Supp.	Intracranial Aneurysms-UVa Patient Care
<b>Obstetrics &amp; Gynecology</b>				
Andersen, W.	A. C. of OB/Gyn.	\$17,600	Supp.	Gynecologic Oncology Group Clinical Trials Studies
Pinkerton, J.	Eli Lilly	\$5,743	Supp.	A Randomized, Parallel Treatment Study
Pinkerton, J.	Wyeth-Ayerst	\$6,353	Supp.	Double-Blind, Randomized, Placebo & Historical Study
<b>Ophthalmology</b>				
Prum, B.	Emmes Corp.	\$25,121	Ren.	UVa Advanced Glaucoma Intervention study
<b>Orthopaedics</b>				
Balian, G.	MicroAire	\$9,990	New	Healing of Tendon Injuries
Damiano, D.	Medtronic	\$4,000	Supp.	Changes in the Muscle Performance of Motor Function
Diduch, D.	Ortho. Trauma Assoc.	\$30,772	New	Enhancement of Fracture Healing by Marrow Osteogen
Wang, G.	Haemacure	\$7,680	Supp.	A Single-Blind, Randomized, Parallel-Group Study
Wang, G.	Haemacure	\$7,680	Supp.	A Single-Blind, Randomized, Parallel-Group Study
Wang, G.	Zimmer	\$18,750	Supp.	Fellowship & Training Support
Wang, G.	Zimmer	\$15,095	New	A Parametric Study Using Finite Element Analysis
<b>Otolaryngology</b>				
Lambert, P.	Lions of Va.	\$11,894	Supp.	Lions Hearing Fdn. & Research Center
Lambert, P.	Lions of Va.	\$4,800	Supp.	Lions of Virginia Hearing Fdn. & Research Center

Principal Investigator	Sponsor	Amount	Type	Project Title
Reibel, J.	ASTRA Pharm.	\$21,853	New	Fellowship for J. Moordzi
Winther, B.	Bristol Meyers	\$1,000	Supp.	Multicenter, Noncomparative Study of Celprozie
Winther, B.	Bristol Meyers	\$250	Supp.	A Multicenter, Noncomparative Study of Celprozie
Winther, B.	Pharm. Res. Assoc.	\$5,587	Supp.	A Double-Blind, Randomized, Placebo-Controlled Study
Winther, B.	Pharm. Res. Assoc.	\$4,265	New	A Double-Blind, Randomized, Placebo-Controlled Study
<b>Pathology</b>				
Bruns, D.	Amer. Assoc. of Clin. Chem.	\$116,407	Cont.	Editorial of Clinical Chemistry
Felder, R.	Tecan	\$25,000	New	Adaptation of Quigen Ultra Plasmid Purification
Goldfarb, A.	DHHS/NCI	\$107,571	Cont.	Detailed Analysis of SCL/TAL Dimerization E Protein
Hazen, K.	Novartis	\$20,000	New	Evaluation of Dermatophyte Study
Stoler, M.	Johns Hopkins	\$34,022	Cont.	Randomized Trial of Clinical Management
<b>Pediatrics</b>				
De Alarcon, P.	Thos. Jeff. Univ.	\$21,795	Cont.	Prevention of Complications of Hemophilia
Donowitz, L.	Pfizer	\$8,300	Supp.	The Efficacy of Prophylactic Fluconazole
Froh, D.	PPD Pharmaco	\$8,043	New	A Phase IV Study of the Safety of Synagis
Kattwinkel, J.	Eastern Va. Med. School	\$14,250	Supp.	Total Infant Mortality Review
<b>Pharmacology</b>				
Bayliss, D.	DHHS/NINDS	\$107,621	Cont.	Development of Brainstem Neurotransmitter Systems
Guyenet, P.	DHHS/NHLBI	\$281,779	Ren.	Organization of Central Sympathetic Pathways
Guyenet, P.	DHHS/NHLBI	\$264,259	New	Central Neuronal Mechanisms of Decompensated Hemorrhage
Larner, J.	Insmed	\$338,976	New	Structure of Inositol Glycan Mediator & Inositol Glycan
Lawrence, J.	DHHS/NIDDK	\$280,623	Cont.	Insulin Action in Muscle and Fat Cell
Lawrence, J.	Juv. Diabetes Fdn.	\$30,000	New	Postdoctoral Fellowship for I. Moths-Sat
Lynch, K.	DHHS/NIGMS	\$9,693	Supp.	Training in the Pharmacological Sciences
Rastinejad, F.	Alex Von Humboldt Fdn.	\$4,019	New	Feodor Lynen Fellowship for B. Wagner
<b>Physiology</b>				
Al-Shawi, M.	DHHS/NIGMS	\$222,518	Cont.	Mechanism of Drug Transport by P-Glycoprotein
Tamm, L.	DHHS/NIAID	\$213,464	Cont.	Molecular Mechanisms of Viral Membrane Fusion
Tamm, L.	DHHS/NIGMS	\$192,235	Cont.	Insertion/Folding of Polytopic Integral Membrane Protein
<b>Plastic Surgery</b>				
Rodeheaver, G.	U.S. Surg. Corp.	\$17,551	Supp.	Continued Performance Evaluation of New Sutures
Rodeheaver, G.	U.S. Surg. Corp.	\$3,700	Supp.	The Efficacy & Safety of CGP 46614
Rodeheaver, G.	Wright Medical Tech.	\$12,293	Supp.	Evaluation of Saduc/Cogent's Antiadhesion Agents
<b>Psychiatry</b>				
Clayton, A.	Eli Lilly	\$2,007	Supp.	Weekly Enteric-Coated Fluoxetine
Clayton, A.	Glaxo	\$11,625	New	Antidote for SSRI-Induced Sexual Dysfunction
Cohen, B.	SmithKline	\$24,477	New	A Randomized, Double-Blind, Placebo-Controlled Study
Cox, D.	ADA	\$77,978	New	Use of Internet for International Diabetes Education
Cox, D.	DHHS/NICHD	\$297,517	Cont.	Treatment of Early Childhood Constipation
Cox, D.	Medeva	\$5,457	New	Double-Blind, Placebo-Controlled Study
Holroyd, S.	Pfizer	\$5,830	Supp.	An Eight-Week, Multicenter, Parallel-Group Study
Holroyd, S.	Pfizer	\$2,000	Supp.	An Eight-Week, Multicenter, Parallel-Group Study
Leslie, C.	Pfizer	\$18,514	Supp.	52-Week, Double-Blind Extension Study
Leslie, C.	Pfizer	\$7,260	Supp.	260-Week, Open-Extension Study Evaluation
Leslie, C.	Pfizer	\$3,092	Supp.	52-Week, Double-Blind Extension Study
<b>Radiology</b>				
Fajardo, L.	Univ. of Pa.	\$70,873	Ren.	MRI in Breast Cancer
Hillman, B.	Medtronic	\$74,097	Supp.	To Provide Core Image Interpretation & Related Services
Hillman, B.	Medtronic	\$5,800	Supp.	To Provide Core Image Interpretation & Related Services
Hillman, B.	Pharm. Res. Assoc.	\$6,160	Supp.	Independent Review Panel Services oncontract
Hillman, B.	Pharm. Res. Assoc.	\$4,692	Supp.	Contract with Tap Holdings
Kallmes, D.	Amer. Soc. of Neuroradiology	\$27,500	New	Fellowship for W. Marx
Kallmes, D.	Boston Scientific	\$41,723	New	In Vivo Testing of BSI Coils in a Rabbit Model
Kallmes, D.	Boston Scientific	\$16,950	Supp.	In Vivo Testing of BSI Coils in a Rabbit Model
Matsumoto, A.	Cordis	\$100	Supp.	Safety & Efficacy Study
Mugler, J.	DHHS/NINDS	\$177,063	Cont.	Optimized 3-D Spin-Echo MR Imaging of the Brain
<b>Student Health</b>				
Peterson, C.	Merck	\$150,038	Supp.	Study of Pilot Manufacturing Lot of HPV16 Virus
<b>Surgery</b>				
Kron, I.	DHHS/NHLBI	\$239,853	Cont.	Living Related Pulmonary Lobar Transplantation
Moore, M.	Vitex	\$28,000	Supp.	Phase II Evaluation of Fibrin Sealant in Patients
Moore, M.	Vitex	\$3,000	Supp.	Phase II Evaluation of Fibrin Sealant in Patients
Pruett, T.	Novartis	\$31,262	Supp.	Randomized, Multicenter, Double-Blind, Double-Dummy Study
Pruett, T.	Novartis	\$20,841	New	Randomized, Multicenter, Double-Blind, Double-Dummy Study
Pruett, T.	Pharm. Res. Assoc.	\$14,000	New	Multicenter, Randomized, Open-Label Trial
Sawyer, R.	Genentech	\$1,500	New	Serum Ferritin as a Predictor of Acute Respiratory Failure
Sawyer, R.	Genentech	\$1,500	Supp.	Serum Ferritin as a Predictor of Acute Respiratory Failure
Sawyer, R.	Pharmacia	\$400	New	Linezolid for the Treatment of Vancomycin-Resistance
Slingluff, C.	Argonex	\$149,309	Supp.	Immunology & Immunotherapy of Human Solid Tumors
Slingluff, C.	John Wayne Cancer Inst.	\$5,000	New	Phase III, Randomized, Double-Blind Trial
Spotnitz, W.	Bristol-Myers	\$23,125	Supp.	Various Trials
Spotnitz, W.	ClinTrials, Inc.	\$5,520	Supp.	Various Trials

Principal Investigator	Sponsor	Amount	Type	Project Title
Spotnitz, W.	ClinTrials, Inc.	\$5,120	Supp.	Various Trials
Spotnitz, W.	V.I. Tech., Inc.	\$3,000	Supp.	Various Trials
Young, J.	Amer. Assoc. of Surgeons	\$17,500	Supp.	Role of Adhesion Molecule
<b>Urology</b>				
Chung, L.	DHHS/MCI	\$168,969	New	Laminin-Integrin Signaling in Prostate Cancer
Chung, L.	Kluge Fdn.	\$200,000	Supp.	Human Prostate Cancer Metastasis Trials
Kao, C.	DHHS/NCI	\$102,328	Cont.	Tissue Specific Gene Therapy for Human Prostate Cancer
Steers, W.	Tap Holdings	\$38,025	Supp.	Phase III Efficacy & Safety Study
Steer, W.	Tap Holdings	\$2,725	Supp.	Phase II Efficacy & Safety Study
Tuttle, J.	DHHS/NIDDK	\$34,652	New	Urological Research Training for Physicians
<b>SCHOOL OF ENGINEERING AND APPLIED SCIENCE</b>				
<b>Biomedical Engineering</b>				
Ferrara, K.	DHHS/NCI	\$158,616	Cont.	Contrast-Assisted Ultrasound Imaging of Tumors
<b>Chemical Engineering</b>				
Neurock, M.	Air Products & Chemicals	\$35,000	Supp.	First-Principles Modeling of the Reaction Chemistry
Neurock, M.	Conoco	\$70,620	New	Ab Initio Analysis of Fischer-Tropsch Catalysis
<b>Civil Engineering and Applied Mechanics</b>				
Demetsky, M.	Va. Transp. Res.	\$120,000	Supp.	University Transportation Centers Program
Noor, A.	NASA	\$85,300	Supp.	Effect of Discontinuities & Uncertainties
Pindera, M.	NASA	\$65,908	Supp.	HOTFGM-Cylinder
Zorumski, W.	NASA	\$40,000	Supp.	A Research Proposal on Impedance Modulation
<b>Computer Science</b>				
Davidson, J.	DARPA	\$216,293	Supp.	Development of HIL/LJL Framework for Compiler
Knight, J.	Air Force	\$250,000	Supp.	Survivability Architectures
Liebeherr, J.	NSF	\$110,467	New	Resource Management in Distributed Media Systems
Reynolds, P.	DARPA	\$220,000	Supp.	Fault Tolerant Isotach Systems
Stankovic, J.	Kyung Hee Univ.	\$65,000	New	Development of a Global Multimedia Database
<b>Dean's Office</b>				
Lasiecka, I.	NSF	\$25,793	Supp.	Control Problems of Systems of Strongly Coupled Equations
Livesay, C.	Va. Space Grant Cons.	\$8,000	New	Industry Internship Program
<b>Electrical Engineering</b>				
Aylor, J.	Duality Semiconductor	\$32,746	New	Virtual Analog Systems Design Environment
Crowe, T.	NRAO	\$80,000	New	Submillimeter-Wave Multiplier Development
Crowe, T.	Univ. of Md.	\$55,000	Cont.	Research Activities in Support of Army Research
Crowe, T.	Va. Millimeter Wave	\$8,000	New	Design Assistance for Varactor Multipliers
Stan, M.	IBM	\$70,000	New	Low Power Design Techniques for Asic Dsp Cores
Towe, E.	Army	\$344,187	New	Advance Instrumentation for Research on (IN,GA)As/GaAs Quantum Dot Heterostructures
Wilson, S.	NRAO	\$24,936	Supp.	NRAO Traineeship in Electrical Engineering
<b>Materials Science</b>				
Baragiola, R.	NASA	\$50,500	Supp.	Laboratory Simulation of Optical Reflectance
Elzey, D.	Motion Control Ind.	\$106,705	New	Smart Curing of Phenolic Matrix Lining Composites
Jesser, W.	NSF	\$130,000	Supp.	Synthesis & Characterization of Crystalline & Liquid Crystalline
Shiflet, G.	NSF	\$12,001	Supp.	Lamellar Phase Transformations in FE-C-X Alloys
Starke, E.	NSF	\$89,803	New	Study of Deformation Bands & Their Role in Microstructural Evolution
Starke, E.	ONR	\$44,665	Supp.	Investigation of Role of Trace Additions
Wadley, H.	Harvard	\$312,000	Supp.	Ultralight Metals
Wadley, H.	ONR	\$92,500	New	Plasma-Assisted Electron-Beam Director Vapor
Wilsdorf, D.	Noesis, Inc.	\$50,400	Supp.	Development of Metal Fiber Brushes for the U.S. Navy
<b>Mechanical, Aerospace and Nuclear Engineering</b>				
Allaire, P.	Medquest	\$188,914	Supp.	Artificial Heart Pump Development
Chelliah, H.	VPI	\$16,815	Supp.	Developed of Modular Reduced-Order Models
Knospe, C.	NASA	\$10,000	Supp.	Advanced Control of Flywheels
Haj-Hariri, H.	NASA	\$79,000	Supp.	Instability Mechanisms of Thermally-Driven Flows
McDaniel, J.	NASA	\$50,000	Supp.	Shock-Jet Interaction for Enhancement Jet Penetration
McDaniel, J.	CIT	\$6,000	New	Center for Aircraft Design Testing & Manufacturing
Pilkey, W.	DOT	\$200,102	New	Restraint System Effectiveness
Pilkey, W.	NATO	\$9,926	New	Optimal Injury Protection from Impact Loading
Thacker, J.	NSF	\$99,930	New	Occupant Protection for Mobility Aid Van & Bus Riders Who Require Adaptive Seating
<b>Systems</b>				
Haimes, Y.	VPI.	\$25,000	Supp.	Uncertainty Sensitivity & Risk in the Mississippi
<b>Technology, Culture and Communications</b>				
Gorman, M.	Lemelson Fdn.	\$19,718	New	Virginia Composite Wheel Team
<b>SCHOOL OF NURSING</b>				
Glick, D.	Va. Health Care	\$3,429	Supp.	Greene County Schools Clinic

## LATEST ENGINEERING SCHOOL AWARDS

**Susan Carlson-Skalak** has won the American Society of Engineering Education's southeast regional research paper award.

**Jeff Crandall** received the Society of Automotive Engineers' Lloyd L. Withrow Distinguished Speaker Award. This is an annual award given to a person receiving the Outstanding Presentation Award for at least three consecutive years.

**John Hostetler**, a graduate student, has won the School of Engineering's Allan Talbott Gwathmey Memorial Award for 1999 for his work on thermorefectance characterization of nonequilibrium heating processes in microelectronic materials using femtosecond laser pulses.

## MCI Worldcom and Cisco Systems Make \$1M. Equipment Donation

A gift of more than \$1 M. from MCI WorldCom Inc. and Cisco Systems, Inc. has facilitated the development of a new computer lab to teach Internet engineering. Twelve Cisco 7000 routers and two Cisco 2500 routers lay the foundation for the new Virginia Internet Teaching Lab. "This is the seed for a new curriculum, possibly even a new field in engineering," according to Jorg Liebeherr, assistant professor of computer science, who is designing and teaching the new course. ■

## A New NIDCD/NIH Program Project

The National Institute on Deafness and Other Communication Disorders at the NIH has awarded a new Program Project Grant entitled "Peripheral Sensory System Development and Regeneration" to the University of Virginia for approximately \$2.8 M. The principal investigator is David Hill in Psychology. The research will examine peripheral sensory cell development and sensory cell regeneration in response to injury. The long-term goal is to examine common and unique processes during development and regeneration of sensory receptor cells in the olfactory, auditory, and gustatory receptor cells.

The faculty involved in the project are David Hill and Peter Brunjes (Psychology), Rob Grainger (Biology), Jeffrey Corwin (Otolaryngology and Neuroscience), and Mark Warchol (Washington University, St. Louis). ■

## researchnews

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