



**MONTCLAIR STATE UNIVERSITY**

The Office of Research and Sponsored Programs

**ANNUAL REPORT FISCAL YEAR 2010**  
External Proposals Submitted/Awards Received

July 15, 2010

**The Office of Research and Sponsored Programs**

Laurie Treleven, Director  
Catherine Bruno, Post Award Officer  
Dana Natale, Pre-Award Officer  
Marina Aloyets, Pre-Award Officer  
Amy Vida, Program Assistant  
Wen Qi, Graduate Assistant

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**MONTCLAIR STATE UNIVERSITY**  
**The Office of Research and Sponsored Programs**

**SUMMARY BY COLLEGE/SCHOOL/ADMINISTRATION**

PROPOSALS SUBMITTED AND AWARD NOTIFICATIONS RECEIVED  
 JULY 1, 2009 - JUNE 30, 2010

<b>Proposals</b>						
<b>College/School</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>	<b>FY 08</b>	<b>FY09</b>	<b>FY10</b>
Academic Affairs (AA)	\$0	\$0	\$0	\$0	\$0	\$557,530
Administration & Student Services (ADMIN & STUDENT SVCS)	\$212,000	\$281,600	\$814,876	\$464,809	\$2,126,718	\$29,591,935
College of the Arts (CART)	\$237,209	\$976,854	\$361,025	\$285,305	\$402,337	\$90,000
College of Education and Human Services (CEHS)	\$7,754,590	\$4,072,635	\$6,098,173	\$5,551,688	\$5,126,617	\$16,319,457
College of Humanities and Social Sciences (CHSS)	\$2,146,898	\$2,206,611	\$7,038,316	\$2,915,284	\$3,690,179	\$2,560,913
College of Science & Mathematics (CSAM)	\$11,732,999	\$15,790,236	\$12,973,100	\$11,668,532	\$29,732,692	\$60,405,552
School of Business (SBUS)	\$0	\$0	\$113,795	\$0	\$16,942	\$5,000
<b>Totals</b>	<b>\$22,083,696</b>	<b>\$23,327,936</b>	<b>\$27,399,285</b>	<b>\$20,885,618</b>	<b>\$41,095,485</b>	<b>\$109,530,387</b>

<b>Awards</b>						
<b>College/School</b>	<b>FY 05</b>	<b>FY 06</b>	<b>FY 07</b>	<b>FY 08</b>	<b>FY09</b>	<b>FY10</b>
Administration & Student Services (ADMIN & STUDENT SVCS)	\$16,500	\$225,900	\$33,200	\$115,918	\$73,000	\$35,500
College of the Arts (CART)	\$58,884	\$108,900	\$81,000	\$104,478	\$167,340	\$106,872
College of Education and Human Services (CEHS)	\$2,368,218	\$2,519,946	\$2,394,407	\$740,707	\$2,022,860	\$2,922,640
College of Humanities and Social Sciences (CHSS)	\$234,202	\$563,282	\$1,000,688	\$3,133,548	\$1,137,734	\$1,725,575
College of Science & Mathematics (CSAM)	\$1,521,782	\$2,118,194	\$3,905,434	\$2,493,001	\$4,111,542	\$4,244,914
School of Business (SBUS)	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$4,199,586</b>	<b>\$5,536,222</b>	<b>\$7,414,729</b>	<b>\$6,587,652</b>	<b>\$7,512,476</b>	<b>\$9,035,501</b>

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Requested
<b>ACADEMIC AFFAIRS (AA)</b>							
	<b>Research Academy for University Learning (RAUL)</b>						
		Bain, Kenneth	Integrative Educational Strategies to Foster a Culture of Engaged Learning, Student Well-Being, and Civic Development	Association of American Colleges & Universities	7/1/10	6/30/12	\$150,000
		Bain, Kenneth	Learn and Serve: MSU Synergy of Service Project	Corporation for National and Community Service	8/1/10	6/30/13	\$147,530
		Bain, Kenneth	The MSU EECO (Environment, Education, and Community Outreach) Project	NJ Commission on Nat'l and Community Service	9/1/10	8/31/13	\$260,000
						<b>Total for AA</b>	<b>\$557,530</b>

## ADMINISTRATIVE AND STUDENT SERVICES

### Facilities Management

	Eddy, Walter	*Combined Heat and Power Plant	NJ Economic Development Authority	7/14/09	11/30/12	\$20,600,000
	Eddy, Walter	*Retail Margin Performance Grant, Combined Heat and Power Plant	NJ Economic Development Authority	7/14/09	11/30/12	\$2,551,500
	Eddy, Walter	PRE-PROPOSAL Clean Energy Solutions Capital Investment Grant (CESCI), Combined Heat and Power Plant	NJ Economic Development Authority	7/14/09	11/30/12	\$5,000,000

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## Global Education

Cunningham, Marina	The Confluence of Cultures: Humanities and the Muslim World	National Endowment for the Arts	9/15/10	6/30/11	\$233,715
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## Information Technology

Sun, Yanling	Making Connections: e-Portfolios for Learning and Transfer	US Department of Education / LaGuardia Community College	1/1/09	12/31/10	\$11,500
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## Fire Safety

Ferrara, Robert	Clove Road Fire Alarm Repair	Federal Emergency Management Agency (FEMA)	5/1/10	4/30/11	\$299,724
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## Health Promotion

Cascarano, Marie	Alcohol Prevention Project	New Jersey Higher Education Consortium / William Paterson University	4/1/10	8/30/11	\$20,000
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## Student Academic Services

Straker-Banks, Allyson	Return to Earn	NJ Commission on Higher Education	7/1/10	6/30/11	\$74,856
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## University Police

Cell, Paul	The Campus-wide Emergency Plan Revitalization Project	US Department of Education	10/1/10	9/30/12	\$333,528
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Cell, Paul	COPS Hiring Program FY 2010	US Department of Justice	10/1/10	9/30/13	\$467,112
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<b>Total for ADMIN and STUDENT SRVCS</b>					<b>\$29,591,935</b>
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# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## CART

### Arts and Cultural Programming

Wheeler, Jedediah	NEA Access to Artistic Excellence FY 2011	National Endowment for the Arts	9/1/10	6/30/11	\$75,000
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### Theatre and Dance

McPherson, Elizabeth	The Staging of "Company B" by Paul Taylor	National Endowment for the Arts	9/1/10	8/31/11	\$15,000
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**Total for CART                    \$90,000**

## CEHS

### Center of Pedagogy

Hopper, Cheryl	Professional Development Services for Teachers and Administration	Paterson Public Schools	4/1/10	6/30/12	\$160,000
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Robinson, Jennifer	FY 2009 Teacher Quality Partnership Grant Competition	US Department of Education	10/1/09	9/30/14	\$6,447,578
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Robinson, Jennifer	Traders to Teachers	NJ Department of Labor and Workforce Development	9/1/09	12/31/10	\$400,000
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### Early Childhood/Elem Ed

McCotter, Suzanne	Leadership, Evaluation, Achievement, Development and Support (LEADS) Project	US Department of Education	9/1/10	8/31/15	\$2,401,259
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Wilber, Dana	Teaching and Learning with Essential New Technologies in the 21st Century (TALENT21) Grant	NJ Department Of Education / Belleville Public Schools	9/1/10	9/15/11	\$97,736
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Wise, Linda	Reading Specialist Endorsement Program	Paterson Public Schools	1/1/10	12/31/11	\$373,573
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# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## Educational Foundations

Carolan, Brian	The Effects of Social Capital on Middle School Students' Cognitive and Non-cognitive Outcomes: Estimates From the ECLS-K Eighth-grade Cohort	Spencer Foundation	9/1/10	8/31/11	\$38,076
DiDonato, Nicole	Serving Youth in Adult Basic and Literacy Education Programs: The Relationship Between Youth Learner Characteristics Adult Program and Instructional National Features and Positive Outcomes	US Department of Education / Institute of Education Sciences	9/1/11	8/31/15	\$87,979
Kennedy, David	Philosophy of Childhood and the Childhood of Philosophy	National Endowment for the Humanities	7/1/10	6/30/12	\$144,460
Reznitskaya, Alina	Measuring the Dialogic Quality of Classroom Talk	Spencer Foundation	9/1/10	8/31/11	\$39,724

## Family and Child Studies

Linver, Miriam	Living in Poverty: How Do Early Experiences Matter for Later Childhood Outcomes?	National Institutes of Health	7/1/10	6/30/12	\$145,422
Stewart, Pearl	Influence of Family and Social Contexts on the Experiences of First Generation College Students	Spencer Foundation	9/1/10	8/31/11	\$39,575

## Health & Nutrition Sciences

Donnelly, Joseph	Project S.T.A.R. Supporting Teen & Adolescent Responsibility	US Department of Health & Human Services	10/1/10	9/30/15	\$2,127,730
Lieberman, Lisa	Teenage Pregnancy Prevention Research and Demonstration Program Tier 2 Subaward to Inwood House, NYC	US Department of Health & Human Services	10/1/10	9/30/15	\$1,117,820

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Lieberman, Lisa	Inwood: Evaluation Piece for Teen Pregnancy Care Program	US Department of Health & Human Services	9/1/10	8/31/15	\$670,345
Lieberman, Lisa	Teenage Pregnancy Prevention Research and Demonstration Program Tier 2 Subaward to Choosing the Best, Inc/STARS GA	US Department of Health & Human Services	10/1/10	9/30/15	\$1,091,344
Silvera, Stephanie	Exploring Sociodemographic and Behavioral Factors Underlying Racial/Ethnic Disparities in Cancer Prevention Behaviors and Cancer Stage at Diagnosis in New Jersey	National Cancer Institute/National Institutes of Health	7/1/11	6/30/16	\$688,814
Wunderlich, Shahla	Disease Prevention and Health Promotion Services (Education)	Hudson County Area Agency on Aging	1/1/10	12/31/10	\$27,891
Wunderlich, Shahla	Disease Prevention and Health Promotion Services (Physical Activity)	Hudson County Area Agency on Aging	1/1/10	12/31/10	\$40,131
Wunderlich, Shahla	MSU Nutrition & Wellness Project (Year 7)	Hudson County Area Agency on Aging	1/1/10	12/31/10	\$180,000
				<b>Total for CEHS</b>	<b>\$16,319,457</b>



# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## CHSS

### Anthropology

Siegel, Peter	Historical Ecology in the Pre-Columbian Caribbean	School for Advanced Research on the Human Experience	7/1/10	8/31/10	\$0
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### Center for Child Advocacy

Curcio, Susan	Missing & Exploited Children National Training & Technical Assistance Program	US Department of Justice / Office of Juvenile Justice and Delinquency Prevention / Rutgers University	10/1/10	9/30/11	\$700,768
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### Communication Sciences and Disorders

Wambacq, Ilse	Neurophysiological and Behavioral Indices Across the Lifespan of Concurrent Sound Segregation in Adults with Normal and Impaired Hearing	National Institutes of Health	1/25/11	1/25/14	\$364,052
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### English

Elbert, Monika	The Peabody Sisters: A Reader	National Endowment for the Humanities	7/1/10	6/30/11	\$73,320
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### Linguistics

Feldman, Anna	RE: EAGER: A Montclair Group in Cognitive and Computational Aspects of Language and Speech Processing: An Exploration	National Science Foundation	8/1/10	7/31/12	\$75,118
Feldman, Anna	Undergraduate Research for Resource-light Morphosyntactic Tagging of Morphologically Complex Languages	National Science Foundation	1/15/10	1/14/13	\$48,000
Fitzpatrick, Eileen	Increasing Cognitive Load to Facilitate Lie Detection Cross-Culturally	National Science Foundation	2/1/10	11/30/11	\$125,010

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## Psychology

Fitzpatrick, Eileen	Verbal Analysis of Laboratory Screening Interviews	ITT Advanced Engineering and Sciences	4/29/10	6/30/10	\$32,200
Fitzpatrick, Eileen	Verbal Analysis of Simulated Border Screening Interviews	US Department of Homeland Security	11/23/09	9/30/10	\$119,337
Fitzpatrick, Eileen	Identification of Coded Messages in Spoken Dialogue	Office of Naval Research	7/1/10	4/30/11	\$31,326
D'Urso, Anthony	Post Licensure Specialization in Forensic Psychology	NJ Department of Children and Families	9/1/10	8/31/11	\$74,750
Lakusta, Laura	Infants' Representations of Sources and Goals in Events	National Institutes of Health	1/1/11	12/31/13	\$382,051
McCormick, Robert	Foster Care Program - Passaic County 2009	Hispanic Information Center of Passaic	7/1/09	12/31/09	\$5,698
Nooner, Kate	Neurobehavioral Processes in Maltreated Adolescents: An fMRI Study	NARSAD	1/15/11	1/14/13	\$58,826
Vietze, Peter	*Maternal Interaction Style and Communication Development	National Institutes of Health	4/1/10	3/31/13	\$395,963

## Sociology

Besen-Casino, Yasemin	Masculinity Threat and Politics	National Science Foundation	2/1/10	2/1/12	\$74,494
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**Total for CHSS \$2,560,913**

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## CSAM

### Biology/Molecular Biology

Adams, Sandra	Phage Genomics Research Initiative	Howard Hughes Medical Institute	7/1/10	6/30/11	\$0
Bologna, Paul	Assessment of Eelgrass (Zostera Marina) Genetic Diversity and Its Relationship With Multiple Environmental Stressors in the Southern New England and New York Region	The Nature Conservancy	3/1/10	3/31/11	\$199,669
Bologna, Paul	Use Molecular Techniques to Assess Sea Nettle (Chrysaora quinquecirrha) Water Column Larvae for Bloom Prediction	NJ Marine Sciences Consortium	3/1/10	2/28/12	\$5,000
Bologna, Paul	Assessment of Sea Nettle (Chrysaora quinquecirrha) Polyps in Barnegat Bay, NJ - PRE PROPOSAL	Barnegat Bay National Estuary	7/1/10	6/30/12	\$2,669
Bologna, Paul	Barnegat Bay Estuary Program FY 2011	Barnegat Bay National Estuary	7/1/10	6/30/10	\$22,324
Bologna, Paul	Barnegat Bay Estuary Program FY2011	Barnegat Bay National Estuary	7/1/10	12/30/11	\$16,002
Bologna, Paul	Assessment of the Ecological Goods and Services Derived from Restored and Natural Seagrass Habitats in New Jersey	NJ Marine Sciences Consortium	5/1/10	4/30/11	\$5,000
Du, Charles	Mobilization and Gene Capture Activities of Helitrons, Novel Eukaryotic Transposons	National Institutes of Health/University of Florida	7/1/10	6/30/15	\$701,664
Du, Charles	CPGS: Comparative Genomics of Aquatic Plants	National Science Foundation	9/1/10	8/30/13	\$88,743

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Egan, Mary	MRI: Acquisition of DNA Sequence and Fragment Analysis Instrumentation for Expanding Faculty and Student Research Opportunities	National Science Foundation	9/1/10	8/31/13	\$332,828
Hazard, Lisa	Impact of Salinization on New Jersey Amphibian Species: A Physiological Approach to Water Quality Issues	US Geological Survey / NJWRRI / Rutgers University	3/1/10	2/28/11	\$18,919
Hazard, Lisa	RUI: Surviving Salt: Functional Integration of Behavioral and Physiological Salinity Tolerances of Amphibians	National Science Foundation	3/1/11	2/28/14	\$356,660
Kight, Scott	URM: Undergraduate Research in Ecology at Montclair State University and the New Jersey School of Conservation	National Science Foundation	9/1/10	8/31/15	\$938,333
Molina, Carlos	Ubiquitination and Subcellular Localization of ICER	National Institutes of Health	1/1/11	12/31/13	\$444,921
Petroff, Elena	Interaction of ASIC and BK Channels and Its Role in Glial Proliferation	National Institutes of Health	1/1/11	12/31/13	\$320,657
Vega, Quinn	Bridges to the Doctorate	National Institutes of Health	1/1/11	12/31/15	\$1,773,452
Wu, MeiYin	Environmental Implications of Ultrasonic Control for Aquatic Invasive Plant Management	National Science Foundation	6/1/10	5/31/13	\$299,798
Wu, MeiYin	Collaborative Research: Greenhouse Gas Balance of Urban Temperate Wetlands	National Science Foundation	4/1/11	3/31/14	\$43,280

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Wu, MeiYin	Develop a Wetland Monitoring Program and an Invasive Plant Management Program for the AuSable River Watershed	US Environmental Protection Agency / SUNY Plattsburg	9/1/09	12/31/09	\$25,710
Wu, MeiYin	Ultrasound Technology for Great Lakes Ballast Waster Treatment	US Environmental Protection Agency	9/1/10	4/30/13	\$673,530
Wu, MeiYin	Potential of Biological Control of Harmful Algal Blooms in Freshwater Ecosystems	US Geological Survey / NJWRRRI / Rutgers University	3/1/10	2/28/11	\$12,667
Wu, MeiYin	Ultrasound Technology for Great Lakes Ballast Water Treatment	US Environmental Protection Agency	5/5/10	4/30/13	\$873,530
<b>Chemistry/Biochemistry</b>					
Goodey, Nina	IGP Synthase Loop Dynamics During Catalysis	National Science Foundation	7/1/10	8/31/13	\$284,621
Goodey, Nina	Sequence Homology vs Ligand Binding in the DHFR Family: Finding New Targets	National Institutes of Health	4/1/11	3/31/14	\$361,100
Goodey, Nina	Relationship Between Sequence Homology and Ligand Binding in the DHFR Family	National Institutes of Health	5/1/10	4/30/13	\$352,311
Hou, Shifeng	In-Situ Synthesis and Catalysis Properties of Metal Nanoparticles on Chelating Groups Functionalized Graphene	American Chemical Society-Petroleum Research Fund	9/1/10	8/31/12	\$50,000
Schelvis, Johannes	Structure/Functional Studies of Prostacyclin Synthase	National Institutes of Health / University of Texas	7/1/10	6/30/15	\$87,790

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

	Siekierka, John	Biomedical-Engineering Sciences for Attracting a Diverse Student Population to a Trans-Disciplinary Program Involving Applied R&D and Entrepreneurial Research	National Institutes of Health	9/1/10	9/1/10	\$1,032,890
	Siekierka, John	Development of a Hig Throughput Assay for a Filarial Parasite p38 Mitogen-activated Protein Kinase Ortholog for Use in Identifying Inhibitors as a Molecular Probes and Potential Anti-filarial Therapeutics	National Institutes of Health	9/1/10	8/31/11	\$129,771
<b>Computer Science</b>						
	Herbert, Katherine	PhyloInteraction: Atree Analysis for Exploring Biological Data Relationships	National Science Foundation	6/1/10	5/31/14	\$887,070
	Feldman, Anna	Mining Social Dynamics from Blogs	National Science Foundation	1/15/10	4/14/11	\$99,958
	Peng, Jing	Collaborative Research: CI-TEAM Demonstration: An Interactive Virtual Laboratory for Exploring Molecular Interactions	National Science Foundation	10/1/10	9/30/12	\$207,538
	Peng, Jing	RI: Small: RUI Automatic Detection of Idiomatic Tokens	National Science Foundation	9/1/10	8/31/12	\$273,205
	Peng, Jing	An Ensemble Approach to Predicting Crime	US Department of Justice	5/1/10	4/30/13	\$998,913
	Robila, Stefan	Acquisition of an Infrared Range Hyperspectral Imaging System	US Army Research Office	4/15/10	4/15/11	\$243,761
	Robila, Stefan	Supporting Decisions in the Information Technology Initiative	NJ Board of Public Utilities	2/1/10	1/31/12	\$186,754

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

	Robila, Stefan	Acquisition of an Infrared Range Hyperspectral Imaging System	US Office of Naval Research	4/15/10	4/15/11	\$243,761
	Robila, Stefan	Decision Support System for IT Management	NJ Sustainability State Institute	12/1/10	11/30/12	\$217,706
	Robila, Stefan	Montclair REU Site in Imaging and Computer Vision (iImagine)	National Science Foundation	3/1/10	2/28/13	\$287,760
	Wang, Dajin	NeTS Small RUI: A Semi-Supervised Clustering Approach to Adapting Power Depletion in Wireless Sensor Networks	National Science Foundation	9/1/10	8/31/13	\$412,828
	Wang, Dajin	Collaborative Research:: gLab: A Novel Green Computing Infused Portable Learning Model	National Science Foundation	9/1/11	8/31/14	\$30,000
<b>Dean, CSAM</b>						
	Prezant, Robert	The Laboratories for Sustainability Sciences Within the Center for Environmental and Life Sciences - A Transdisciplinary Facility for Advanced Study	National Institute of Standards and Technology	9/15/10	9/14/12	\$15,000,000
	Prezant, Robert	*Center for Environmental and Life Sciences - A Transdisciplinary Facility for Advanced Study	National Institute of Standards and Technology	3/1/10	9/30/13	\$15,000,000
	Schneemeyer, Lynn	*Revovation of Physics Space for the 21st Century	National Science Foundation	5/1/10	4/30/12	\$1,160,576
<b>Earth &amp; Environmental Studies</b>						
	Brachfeld, Stefanie	High-Pressure Treatment of Synthetic Mars Basalts: Implications for Understanding the Evolution of Crustal Magnetic Anomalies	National Aeronautic & Space Administration	1/1/10	12/31/12	\$363,368

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Brachfeld, Stefanie	Collaborative Research: Mapping Circulation Patterns Using Sediment Trend Analysis and Anisotropy of Magnetic Susceptibility Within Tidewater Bays and Fjords: Antarctic Peninsula	National Science Foundation	1/1/11	12/31/13	\$46,061
Brachfeld, Stefanie	Acquisition of a Spinner Magnetometer and Ancillary Paleomagnetic Equipment at Montclair State University	National Science Foundation	1/1/10	12/31/11	\$130,443
Chopping, Mark	A Decade of Changes in Aboveground Live Standing Dry Biomass, Canopy Cover, Height, and Understory Density in the Southwestern United States from EOS MISR and MODIS	National Aeronautic & Space Administration	1/1/11	12/31/13	\$182,385
Feng, Huan	PRE-PROPOSAL International Collaboration in Chemistry: A Chemical Mechanism Study of Heavy Metal Uptake by Wetland Plants and Sediment Remediation	National Science Foundation	9/1/10	8/31/13	\$2
Feng, Huan	Urban Coastal Environmental Sustainability Study from a Global Aspect	National Science Foundation	7/1/10	6/30/13	\$309,216
Feng, Huan	Building Coastal Urban Environmental Sustainability Study Module Through Internet-based International Collaboration	National Science Foundation	9/1/10	8/31/13	\$199,448
Feng, Huan	Environmental Pollution Study in Urban-Industrial Estuaries/Ports and Harbors for Sustainable Coastal Development and Management	NJ Marine Sciences Consortium	7/1/10	6/30/11	\$4,969
Feng, Huan	International Collaboration in Chemistry: A Chemical Mechanism Study of Heavy Metal Uptake by Wetland Plants and Sediment Remediation	National Science Foundation	9/1/10	8/31/13	\$512,104



# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Galster, Josh	Measuring the Impact of an Invasive Plant Species on Groundwater Movement	US Geological Survey / NJWRRRI / Rutgers University	4/1/10	12/31/10	\$22,159
Galster, Josh	Collaborative Research: Using Concurrent, Proximal Dam Removal Projects as Natural Replicates to Predict the Range of River Response to Future Dam Removals	National Science Foundation	1/1/10	12/31/12	\$141,487
Galster, Josh	Quantifying Historic Land Use Change Using Historic Aerial Photographs and Modeling Those Changes Using Cellular Automata	National Science Foundation	9/1/10	12/31/12	\$223,199
Gorring, Matthew	Upgrade of the Optical ICP at Montclair State University	National Science Foundation	1/1/10	12/31/10	\$28,050
Passchier, Sandra	CAREER: Sediment Petrogenesis in a Glaciated Rift-tectonic Setting and Implications for Paleoclimatic Interpretations of Ancient Rift Successions	National Science Foundation	9/1/10	8/31/15	\$492,675
Passchier, Sandra	Participation in IODP Expedition 318 Wilkes Land Glacial History	Consortium for Ocean Leadership	1/4/10	4/10/10	\$38,526
Passchier, Sandra	Cenozoic Antarctic Ice-sheet Dynamics Based on Ice-rafted Debris and Bulk Sediment Geochemical Studies of Sites U1356, U1358 and U1359	Consortium for Ocean Leadership	8/1/10	7/31/13	\$14,959
Pope, Gregory	Fire Influenced Soil Development in the New Jersey Pine Barrens: Interrelationships of Clay Mass Budget, Nutrient Chemistry, and Black Carbon	National Science Foundation	3/1/10	5/31/13	\$165,387

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Punamiya, Pravin	Green Remediation of Tetracycline in Soil-water Systems	US Geological Survey / NJWRRRI / Rutgers University	3/1/10	2/28/11	\$5,000
Sarkar, Dibyendu	Low-Cost Green BMPs to Reduce Phosphorus and Antibiotics Input in Saginaw Bay AOC	US Environmental Protection Agency	5/1/10	4/30/13	\$445,342
Sarkar, Dibyendu	Revegetation of Torch Lake AOC	US Environmental Protection Agency	5/1/10	4/30/12	\$300,064
Sarkar, Dibyendu	Glauconitic Soils in New Jersey Coastal Plains: Potential for Denitrification	US Geological Survey / NJWRRRI / Rutgers University	40238	40602	\$30,000
Sarkar, Dibyendu	Coupled Water Treatment Residual/Vetiver Grass Methods for Cost-Effective Green Reclamation of Abandoned Mine Soils	US Dept of Interior Office of Surface Mining	9/1/10	8/31/12	\$199,304
Yu, Danlin	Monitoring and Predicting Pathogen Levels in the Lower Passaic River to Inform River Users of Gastrointestinal Health Risks	US Geological Survey / NJWRRRI / Rutgers University	3/1/10	2/28/11	\$29,999
Yu, Danlin	Investigation of Spatiotemporally Varying Relationships in Regression Analysis - Development of Geographically and Temporally Weighted Regression Methods	National Science Foundation	9/1/10	8/31/13	\$324,860
Yu, Danlin	CAREER: Investigation of Spatiotemporally Varying Relationships in Regression Analysis - A Geographically and Temporally Weighted Regression Methodology	National Science Foundation	5/1/10	4/30/15	\$701,784

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## Institute for Sustainability

Weinstein, Michael	Implementing Sustainable Practices at Small Businesses	US Environmental Protection Agency	3/1/10	2/28/12	\$49,837
Weinstein, Michael	Using Biochemical Condition to Infer Relationships Between Finfish Production and Aquatic Plants in Phragmites - Dominated and Restored Tidal Wetlands	US Army Corp of Engineers	7/1/11	6/30/10	\$216,719

## Mathematical Sciences

Billings, Lora	Social Adaptation and Control in Populations Subjected to a Biological Threat	DTRA Basic Research (Naval Research Lab)	10/1/09	9/30/12	\$149,401
Choi, Youngna	Chaos and Bifurcation in Financial Crises	National Science Foundation	6/1/10	5/31/13	\$155,576
Cutler, Jonathan	Extremal Problems for Homomorphisms of Graphs and Hypergraphs	National Security Agency	6/1/11	6/1/13	\$29,478
Cutler, Jonathan	RUI (ANTC): Extremal Problems for Homomorphisms of Graphs and Hypergraphs	National Science Foundation	9/1/10	9/1/13	\$105,922
Forgoston, Eric	Sensing in Stochastic Environments Using Coupled Systems	Naval Research Laboratory	9/1/10	8/31/12	\$49,990
Fuller, Evan	Proving Styles in University Mathematics	National Science	7/1/10	7/1/13	\$49,961
Munakata, Mika	Connected Mathematics and Science (CMS) Teaching and Learning	National Science Foundation	9/1/10	8/31/13	\$449,983

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

Trubatch, David	CAREER: Solitons and Applications	National Science Foundation	9/1/10	6/30/14	\$413,560
Trubatch, David	*MRI-R2: Acquisition of Scientific Computing Capacity	National Science Foundation	9/1/10	8/31/13	\$226,413
Trubatch, David	Collaborative Research RUI: Dynamics of Soliton Interactions and Their Applications	National Science Foundation	7/1/10	6/30/13	\$142,168
Vaidya, Ashwin	AF: Small: Collaborative Research: Understanding Protein Misfolding and Aggregation via Multi-Scale Fluid Dynamics-Based Modeling and Molecular-Level Simulations	National Science Foundation / University of Southern Mississippi	6/1/10	5/30/13	\$81,913
Vaidya, Ashwin	Collaborative Research: A Theoretical and Experimental Study of Unsteady Fluid Solid Interaction	National Science Foundation	1/7/10	3/6/13	\$140,020
Vaidya, Ashwin	MRI: Acquisition of an Imaging System for the Study of Complex Fluids	National Science Foundation	7/1/10	6/30/11	\$162,450
Yecko, Philip	Meeting Modeling Challenges of Magnetic Fluids on the Micro-Scale	National Science Foundation	12/1/10	11/30/13	\$117,067
Yecko, Philip	RUI: Multi-scale Medeling of Interfacial Flows of Magnetic Fluids With Macro-chain Aggregates	National Science Foundation	9/10/10	8/30/13	\$226,779
Yecko, Philip	Modeling Interfacial Flows of Magnetic Fluids: Nonlinearity and Magnetophoresis on the Microscale	National Science Foundation	6/1/10	5/31/13	\$116,992
Yecko, Philip	Quantifying Transport and Optimizing Control in Perturbed Geophysical Flows	National Aeronautic & Space Administration	1/1/11	12/31/13	\$994,362

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## Passaic River Institute

Barrett, Kirk	Planning for Water Supply Sustainability in the Face of Climate Change in New Jersey	National Science Foundation	1/1/11	12/31/14	\$215,097
Barrett, Kirk	REU site: Transdisciplinary Environmental Science Research on Forest Lakes in Northwest New Jersey	National Science Foundation	6/1/10	5/31/14	\$390,320
Barrett, Kirk	EcoShare: Technologically-Facilitated Sharing of Ecological Explorations	National Oceanic and Atmospheric Administration / Estuarine Reserves	9/1/11	8/31/14	\$466,945
Barrett, Kirk	Assessing the Relationship Between Land Use / Land Cover and Eutrophication in Lakes and Estuaries in the Southeastern and Mid-Atlantic United States, 1970s to 2000s	National Aeronautic & Space Administration	1/1/11	12/31/12	\$0
Barrett, Kirk	Assessing Water Quality in Small and Medium Bays of the Great Lakes Via Remote Sensing, 1970s to 2012	US Environmental Protection Agency	4/1/10	3/31/12	\$248,139

## PRISM

Willis, Jacalyn	The Cyber-Demonstration School	US Department of Education	1/5/11	12/31/15	\$5,000,000
Willis, Jacalyn	Mathematics & Science Partnership	NJ Department of Education	7/1/10	6/30/13	\$592,000

**Total for CSAM \$60,405,552**

# Annual Report Proposals

Submitted From 07/01/2009 To 06/30/2010

## SBUS

### Management & Information Systems

Malaga, Ross

Using a Standard Learning Management System Template for Online and Hybrid Courses to Improve Student Learning and Retention

Quality Matters

7/1/10

6/30/11

\$5,000

**Total for SBUS**

**\$5,000**

**GRAND TOTAL: \$109,530,387**

*\*Denotes award receiving American Recovery & Reinvestment Act (ARRA) Funding*

# Annual Report Awards

**Award Notices Received From** 07/01/2009 **To** 06/30/2010

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
<b>ADMINISTRATIVE and STUDENT SERVICES</b>							
<b>Information Technology</b>							
		Sun, Yanling	Making Connections: e-Portfolios for Learning and Transfer	US Department of Education / LaGuardia Community College	01/01/09	12/31/10	\$11,500
<b>Health Promotion</b>							
		Cascarano, Marie	Alcohol Prevention Project	New Jersey Higher Education Consortium / William Paterson University	04/01/10	08/30/11	\$24,000
<b>Total for ADMIN and STUDENT SVCS</b>							<b>\$35,500</b>
<b>CART</b>							
<b>Art Galleries</b>							
		Rodriguez, Teresa	General Programming Support, FY 2010	NJ State Council for the Arts	07/01/09	06/30/10	\$11,854
<b>Arts and Cultural Programming</b>							
		Wheeler, Jedediah	General Programming Support, FY 2010	NJ State Council for the Arts	07/01/09	06/30/10	\$30,018
		Wheeler, Jedediah	Access to Artistic Excellence FY 2011	National Endowment for the Arts	09/01/10	06/30/11	\$50,000
<b>Theatre and Dance</b>							
		McPherson, Elizabeth	The Staging of "Company B" by Paul Taylor	National Endowment for the Arts	09/01/10	08/31/11	\$15,000
<b>Total for CART</b>							<b>\$106,872</b>

# Annual Report Awards

**Award Notices Received From** 07/01/2009 **To** 06/30/2010

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
<b>CEHS</b>							
<b>Center of Pedagogy</b>							
		Robinson, Jennifer	FY2009 Congressionally Directed: The New Teacher Pipeline Project	US Department of Education	09/01/09	08/31/10	\$190,000
		Robinson, Jennifer	FY 2009 Teacher Quality Partnership Grant Competition	US Department of Education	10/01/09	09/30/10	\$674,474
		Robinson, Jennifer	Traders to Teachers	NJ Department of Labor and Workforce Development	09/01/09	12/31/10	\$400,000
<b>Early Childhood/Elem Ed</b>							
		Erwin, Elizabeth	Building Foundations for Self-Determination in Young Children with Disabilities	US Department of Education / Univ. of Kansas Center for Research, Inc.	07/01/09	06/30/10	\$129,241
		Freedson, Margaret	Dual Language Learner Staffing Study	Pew Charitable Trust / Rutgers University	09/01/09	06/30/10	\$29,117
		Wise, Linda	Reading Specialist Endorsement Program	Paterson Public Schools	11/19/09	11/18/12	\$373,573
<b>Family and Child Studies</b>							
		Gager, Constance	Effects of Parental Marital Discord on Adult Child Outcomes (Year 2)	National Institutes of Health	01/01/10	12/31/10	\$73,179
		Reid, Robert	Paterson (NJ) Minority Substance Abuse and HIV Prevention Initiative (Year 3)	US Department of Health & Human Services / SAMHSA	09/30/10	09/29/11	\$335,333



# Annual Report Awards

Award Notices Received From 07/01/2009 To 06/30/2010

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
		Urban, Jennifer	A Phase II of the Systems Evaluation Protocol for Assessing and Improving Stem Education Evaluation (supplemental funding)	National Science Foundation/Cornell University	01/04/10	05/31/10	\$3,052
	<b>Health &amp; Nutrition Sciences</b>						
		Kaelin, Mark	Epidemiology and the Energy Balance Equation (Years 2 & 3)	National Institutes of Health	06/01/09	05/31/10	\$534,671
		Wunderlich, Shahla	MSU Nutrition & Wellness Project (Year 7)	Hudson County Area Agency on Aging	01/01/10	12/31/10	\$180,000
							<b>Total for CEHS \$2,922,640</b>
<b>CHSS</b>	<b>Anthropology</b>						
		Siegel, Peter	Historical Ecology in the Pre-Columbian Caribbean	School for Advanced Research on the Human Experience	09/01/10	06/01/11	\$4,200
	<b>Center for Child Advocacy</b>						
		McCormick, Robert	Post BA Certification in Child Advocacy	NJ Department of Children and Families	09/01/09	08/31/10	\$233,248
		McCormick, Robert	New Jersey Child Welfare Training Consortium	NJ Department of Children and Families / Rutgers University	07/01/09	06/30/10	\$1,188,378
	<b>Linguistics</b>						
		Feldman, Anna	Undergraduate Research: Cross-Lingual Approaches to Morphosyntactic Tagging	National Science Foundation	06/01/10	05/31/11	\$16,000
		Feldman, Anna	*Resource-light Morphosyntactic Tagging of Morphologically Complex Languages	National Science Foundation	09/01/09	08/31/12	\$169,174

# Annual Report Awards

**Award Notices Received From 07/01/2009 To 06/30/2010**

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
		Fitzpatrick, Eileen	Verbal Analysis of Laboratory Screening Interviews	ITT Advanced Engineering and Sciences	04/29/10	06/30/10	\$32,200
	<b>Psychology</b>	Dickinson, Jason	*Collaborative Research: The Impact of Cuing and Comfort Drawing on the Eyewitness Testimony of Behaviorally Inhibited and Uninhibited Children	National Science Foundation	08/15/09	07/31/11	\$76,677
		McCormick, Robert	Foster Care Program - Passaic County 2009	Hispanic Information Center of Passaic	07/01/09	12/31/09	\$5,698
						<b>Total for CHSS</b>	<b>\$1,725,575</b>
	<b>CSAM</b>						
	<b>Biology/Molecular Biology</b>	Bologna, Paul	Assessment of Sea Nettle (Chrysaora quinquecirrha) Polyps in Barnegat Bay, NJ	Barnegat Bay National Estuary	05/15/10	05/14/11	\$2,669
		Du, Charles	TRPGR: New Reverse Genetics Resources for Maize: Production and Indexing Using Next-Gen Sequencing	National Science Foundation/Rutgers University	09/01/09	08/31/10	\$69,597
		Halaby, Reginald	Establishment of a MARC Program at Montclair State University (Year 4)	National Institutes of Health	06/01/10	05/31/11	\$392,050
		Hazard, Lisa	Impact of Salinization on New Jersey Amphibian Species: A Physiological Approach to Water Quality Issues	US Geological Survey/Rutgers University	03/01/10	02/28/11	\$18,919
		Wu, MeiYin	Develop a Wetland Monitoring Program and an Invasive Plant Management Program for the AuSable River Watershed	US Environmental Protection Agency / SUNY Plattsburg	09/01/09	12/31/09	\$25,710

# Annual Report Awards

**Award Notices Received From 07/01/2009 To 06/30/2010**

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
<b>Chemistry/Biochemistry</b>							
		Schelvis, Johannes	*Molecular Mechanisms of Photolyase and Cryptochrome	National Science Foundation	08/01/09	07/31/12	\$419,453
<b>Computer Science</b>							
		Robila, Stefan	Montclair REU Site in Imaging and Computer Vision (iMagine)	National Science Foundation	04/01/10	03/31/11	\$95,920
		Robila, Stefan	MRI: Acquisition of a High Performance Computer Cluster Supporting Computational Science Research	National Science Foundation	09/01/09	08/31/12	\$190,010
<b>Dean's Office, CSAM</b>							
		Prezant, Robert	LSAMP: The Garden State Alliance for Minority Participation	National Science Foundation / Rutgers University	07/01/09	06/30/10	\$112,087
<b>Earth &amp; Environmental Studies</b>							
		Brachfeld, Stefanie	Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, A Multidisciplinary Approach, Marine and Quaternary Geosciences (Year 3)	National Science Foundation	10/01/09	09/30/10	\$63,148
		Brachfeld, Stefanie	Acquisition of a Spinner Magnetometer and Ancillary Paleomagnetic Equipment at Montclair State University	National Science Foundation	04/15/10	03/31/10	\$132,443

# Annual Report Awards

Award Notices Received From 07/01/2009 To 06/30/2010

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
		Chopping, Mark	A New Approach for Mapping Woody Plants in the Southwestern United States using NASA Earth Observing System Data (Year 3)	National Aeronautic & Space Administration	01/02/10	01/01/11	\$62,638
		Chopping, Mark	Forest and Shrub Mapping with MISR (supplemental funding)	National Aeronautic & Space Administration/Jet Propulsion Laboratory	03/19/09	12/31/10	\$40,973
		Chopping, Mark	Mapping Changes in Shrub Abundance and Biomass in Arctic Tundra using NASA Earth Observing System Data and Geometric-Optical Modeling (Year 2)	National Aeronautic & Space Administration	07/01/10	06/30/11	\$170,282
		Galster, Josh	Identifying the Source of Excess Fine-Grained Sediments in NJ Rivers Using Radionuclides	US Geological Survey / Rutgers University	01/01/10	07/31/10	\$30,000
		Gorring, Matthew	Upgrade of the Optical ICP at Montclair State University	National Science Foundation	05/01/10	04/30/11	\$28,050
		Passchier, Sandra	Participation in IODP Expedition 318 Wilkes Land Glacial History	Consortium for Ocean Leadership	01/04/10	04/10/10	\$38,526
		Punamiya, Pravin	Green Remediation of Tetracycline in Soil-Water Systems	US Geological Survey/Rutgers University	03/01/10	02/28/11	\$5,000

# Annual Report Awards

**Award Notices Received From 07/01/2009 To 06/30/2010**

School	Department	Lead Faculty	Project Title	Sponsor Name	Start Date	End Date	Amount Awarded
<b>Health Careers</b>							
		Lorenzo, Donna	Montclair State University Upward Bound Project (Years 3 & 4)	US Department of Education	09/01/09	08/31/11	\$500,000
<b>Mathematical Sciences</b>							
		Billings, Lora	Multi-scale Modeling of Infectious Diseases in Fluctuating Environments	National Institutes of Health	09/01/09	08/31/10	\$264,569
		Trubatch, David	*MRI-R2: Acquisition of Scientific Computing Capacity	National Science Foundation	09/01/10	08/31/11	\$129,372
		Trubatch, David	Collaborative Research RUI: Dynamics of Soliton Interactions and Their Applications	National Science Foundation	07/01/10	06/30/13	\$142,168
		Wolff, Kenneth	New GK-12 Fellows in the Middle (Year 5)	National Science Foundation	07/15/10	02/29/12	\$470,687
<b>PRISM</b>							
		Willis, Jacalyn	2009 Congressionally-directed Award for STEM Teacher Training for the 21st Century	US Department of Education	09/01/09	08/31/10	\$190,000
		Willis, Jacalyn	GEAR UP: Passaic Public Schools (Year 4)	US Department of Education	09/01/09	08/31/10	\$58,643
		Willis, Jacalyn	Mathematics & Science Partnership	NJ Department of Education	07/01/10	06/30/11	\$592,000
						<b>Total for CSAM</b>	<b>\$4,244,914</b>
<b>GRAND TOTAL</b>							<b>\$9,035,501</b>

*\*Denotes award receiving American Recovery & Reinvestment Act (ARRA) Funding*

MONTCLAIR STATE UNIVERSITY  
The Office of Research and Sponsored Programs

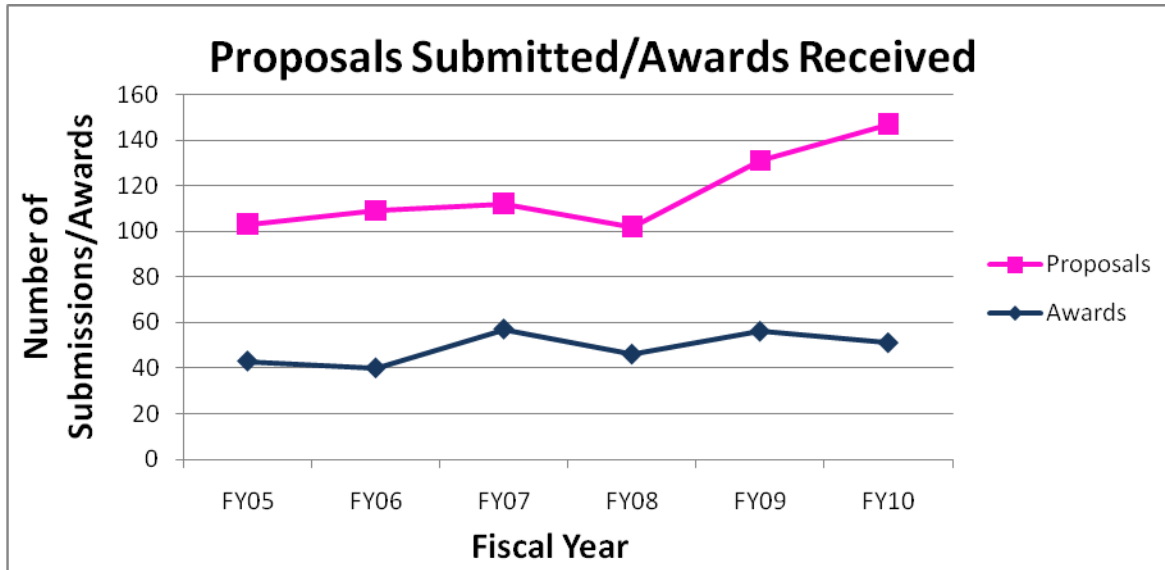


Figure 1:  
Number of Proposals Received by Fiscal Year  
Number of Awards Received by Fiscal Year  
2005-2010

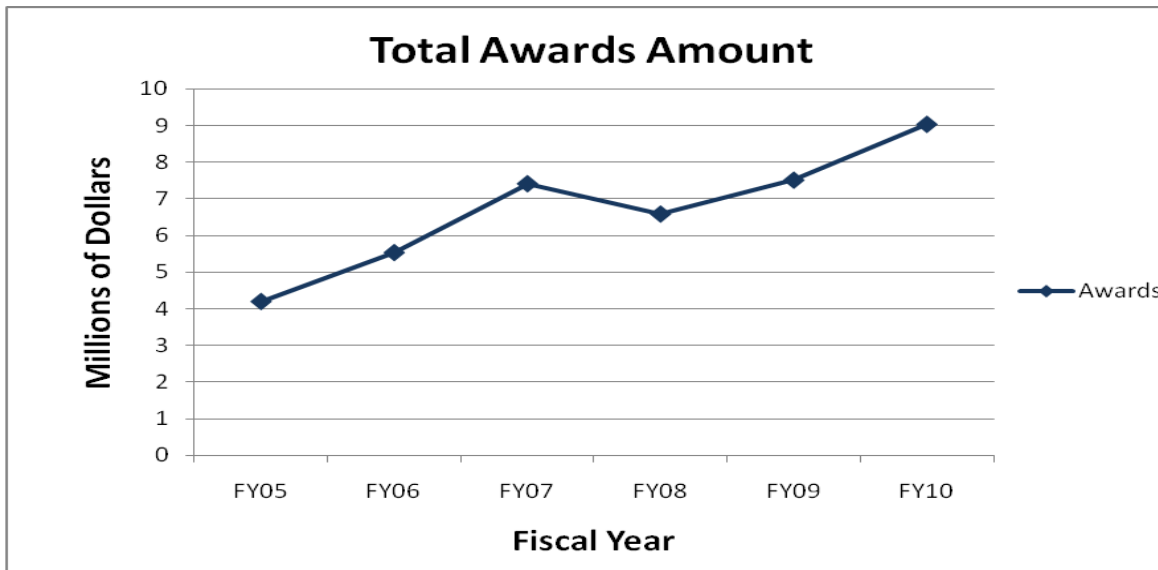


Figure 2:  
Award Amounts Received by Fiscal Year  
2005-2010

**MONTCLAIR STATE UNIVERSITY**  
**The Office of Research and Sponsored Programs**

**Breakdown of Proposals Submitted by College**

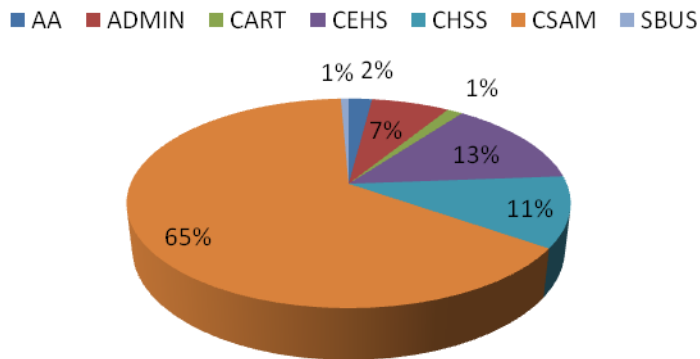


Figure 1:

Breakdown of Proposals Submitted by College:

- AA – 3 proposals submitted, 1% of total
- ADMIN – 10 proposals submitted, 7% of total
- CART – 2 proposals submitted, 1% of total
- CEHS – 20 proposals submitted, 13% of total
- CHSS – 16 proposals submitted, 11% of total
- CSAM – 95 proposals submitted, 65% of total
- SBUS - 1 proposal submitted, 1% of total

TOTAL PROPOSALS SUBMITTED: 148

**Breakdown of Awards Received by College**

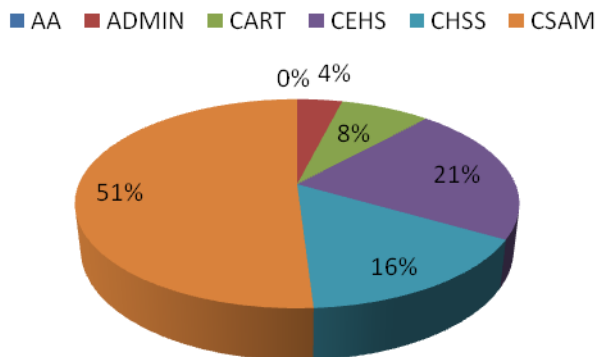


Figure 2:

Breakdown of Awards Received by College:

- AA – 0 awards received, 0% of total
- ADMIN – 2 awards received, 4% of total
- CART – 4 awards received, 8% of total
- CEHS – 11 awards received, 21% of total
- CHSS – 8 awards received, 16% of total
- CSAM – 26 awards received, 51% of total
- SBUS - 0 awards received, 0% of total

TOTAL AWARDS RECEIVED: 51

## FY 2010 ARRA Proposals Submitted

Montclair State University

College	Faculty	Proposal Title	Funding Agency	Requested Amount
ADMIN	Eddy, Walter	Combined Heat and Power Plant	NJ Economic Development Authority	\$20,600,000
ADMIN	Eddy, Walter	Retail Margin Performance Grant, Combined Heat and Power Plant	NJ Economic Development Authority	\$2,551,500
CHSS	Vietze, Peter	Maternal Interaction Style and Communication Disorder	National Institutes of Health	\$395,963
CSAM	Prezant, Robert	Center for Environmental and Life Sciences - A Transdisciplinary Facility for Advanced Study	National Institutes of Standards and Technology	\$15,000,000
CSAM	Schneemeyer, Lynn	Revovation of Physics Space for the 21st Century	National Science Foundation	\$1,160,576
CSAM	Trubatch, David	MRI-R2: Acquisition of Scientific Computing Capacity	National Science Foundation	\$226,413

**Total Amounts Requested: \$ 39,934,452**



## FY 2010 ARRA Awards Received

Montclair State University

College	Faculty	Proposal Title	Funding Agency	Amount
CHSS	Feldman, Anna	Resource-light Morphosyntactic Tagging of Morphologically Complex Languages	National Science Foundation	\$169,174
CHSS	Dickinson, Jason	Collaborative Research: The Impact of Cuing and Comfort Drawing on the Eyewitness Testimony of Behaviorally Inhibited and Uninhibited Children	National Science Foundation	\$76,677
CSAM	Schelvis, Johannes	Molecular Mechanisms of Photolyase and Cryptochrome	National Science Foundation	\$419,453
CSAM	Trubatch, David	MRI-R2: Acquisition of Scientific Computing Capacity	National Science Foundation	\$129,372

**Total Amounts ARRA Awarded: \$ 794,676**