2010 COSE Student Project Showcase

Alpha Order by Team Members

Entry #	Gro up	team members		Major/Conce ntration	Advisor	d or Und
94	UL	Abdelaziz Mtaoua	PHOTODYNAMIC THERAPY OF CANCER DISEASES SYNTHESIZE OF METHOXY L- LYSYLPYROPHEOPHORBIDE-A AND ITS ZINC METAL	Chemistry	Dr. Uschi Simonis	u
101	UP	Abdirahman Adam, Jennifer Smith, Jennifer Tran, Johnny Hoang, Wubet Woldemichael, and Yue Ming Huang	FOUNDATION DESIGNS	Civil Engineering	Dr. Timothy D'Orazio	u
128	UP	Abigail Elisabeth Reiss	VISIBLE-WAVELENGTH INTEGRATED SPECTROSCOPY OF BINARY ASTEROIDS	Astrophysics	Dr. Adrienne Cool and Dr. Franck Marchis	u
64	GP	Addie Evans	INFERRING TREE TOPOLOGIES USING PHYLOGENETIC INVARIANTS	Mathematics	Dr. Serkan Hosten	g
56	GP	Alan Chan	THE DEVELOPMENT OF WiGig VEHICULAR AD HOC N	Enginering	Dr. Hamid Shahnasser	g
102		Alex Osorio, Noor Hasan, Patrick Ledesma, Chor Sum Wong, George Khaelilieh, and Hamed Khan Zadran	SFSU TIMBER TRUSS BRIDGE	Civil Engineering	Dr. Cheng Chen	u
81	UL	Alex Pankov	GENOMIC SIGNATURES ASSOCIATED WITH RECURRENCE IN BREAST CANCER PATIENTS	Mathematics	Dr. Javier Arsuaga	u

Entry #	Gro up	team members	TITLE	Major/Conce	Advisor	d or Und
77	ч	todiii iiioiiboio		madon	ravioor	Ond
129	UP	Alexandra Miller	BEAM REFLECTION BY NEGATIVE DEFECTS IN PHOTONIC LATTICES	Physics	Dr. Zhigang Chen	u
4.0		Andrew Comines	CHARACTERIZING ECDYSIS BEHAVIOR IN THE	Physiology and Behavioral	Da Magurai Fuga	
18	GL	Andrew Carriman	STICK INSECT, CARAUSIUS MOROSUS	Biology	Dr. Megumi Fuse	g
12	GL	Andrew Core, Jonathan Ivers, Chris Quock, Dr. Chris Smith, Travis Siapno, and Dr. John Hafernik	THE EFFECTS OF A NEWLY DISCOVERED PARASITE (<u>APOCEPHALUS BOREALIS</u>) ON THE HEALTH OF HONEY BEE COLONIES	Conservation Biology	Dr. John Hafernik	g
65	GP	Andrew Herrmann	CLASSIFICATION OF EHRHART QUASI- POLYNOMIALS OF HALF-INTEGRAL POLYGONS	Mathematics	Dr. Matthias Beck	g
119	UP	Andrew McBrian Cole, Kayvon Shakeri, Kevin Gee, and Prasith Sip	RACE CAR	Mechanical Engineering	Dr. Kwok-Siong Teh	u
120	UP	Andrew Navarro and Christian Fernandez	DRINK MIXER	Mechanical Engineering	Dr. Tom Holton	u
110	UP	Andy Kwan and Richard Solomon	HYBRID RADIO CONTROL CAR	Electrical Engineering	Dr. Tom Holton	u
20) GL	Anita Yip	EFFECTS OF FOOD AVAILABILITY ON NEUROGENESIS IN THE TOBACCO HORNWORM, MANDUCA SEXTA	Physiology and Behavioral Biology	Dr. Chris Moffatt	g

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π	μρ	team members	IIILL	ITITATION	Advisor	Ona
93	UL	Anthony Trinh	SYNTHESIS OF TRIMETHYLLYSINE-SUBSTITUTED PHEOPHORBIDE-A SILICON COMPLEX	Biochemistry	Dr. Uschi Simonis	u
50	GP	Anuj Pushkarna	RELIABILITY ANALYSIS OF POWER GATED SRAM UNDER COMBINED EFFECTS OF NBTI AND PBTI IN NANO-SCALE CMOS	Electrical Engineering	Dr. Hamid Mahmoodi	g
76	UL	Ariel Aveo and Tyson Buis	ECDYSIS TRIGGERING HORMONE INDUCES FICTIVE PRE-ECDYSIS AND ECDYSIS IN INTERMOLT PERIOD OF TOBACCO HORNWORM NERVOUS SYSTEMS	Physiology and Behavioral Biology	Dr. Megumi Fuse	u
77		Armbien Sabillo and Vanja Krneta-Stankic	SPATIAL PATTERNING OF MUSCLE FIBERS IN XENOPUS LAEVIS	Physiology and Behavioral Biology	Dr. Carmen R. Domingo	u
55	GP	Avisa Tehrani	ANONYMOUS COMMUNICATION IN MOBILE AD HOC NETWORKS	Enginering	Dr. Hamid Shahnasser	g
111	UP	Billy Hui and Aung Tint	WIRELESS TEMPERATURE DISPLAY AND CONTROL SYSTEM	Electrical Engineering	Dr. Tom Holton, Dr. George Anwar, and Dr. Hao Jiang	u
57	GP	Bita Nosratieh	CONVEXITY OF DOMAINS OF BEST APPROXIMATION	Mathematics	Dr. Yitwah Cheung	g
121		Brandon Leaupepetele and Hieu Vo	AUTOMATIC BASKETBALL RETURNER	Mechanical Engineering	Dr. Dipendra Sinha and Dr. Kwok-Siong Teh	u

Entry	Gro	4		Major/Conce		d or
#	up	team members	TITLE	ntration	Advisor	Und
13	GL	Brennan Wenck	BIODIVERSITY AND PHYLOGENY OF MARASMUIS OF NOR YUNGAS, BOLIVIA	Ecology and Systematics Biology	Dr. Dennis Desjardin	g
78	UL	Camilla Teng	ROLE OF ROR1 IN THE DEVELOPING CHICK NEURAL TUBE	Cell and Molecular Biology	Dr. Laura Burrus	u
1	GL	Cathy Samayoa	FEASIBILITY OF USING SALIVA AS A BIOSPECIMEN FOR BREAST CANCER SCREENING IN WOMEN	Cell and Molecular Biology	Dr. Leticia Marquez-Magana	g
71	GP	Claire Davy, Zach Hoch, and Stephen Pehrson	HUNTING FOR COMPACT GALAXIES	Physics and Astroshysics	Dr. Ron Marzke	g
21	GL	Cleopa Omondi, Sayed Miry, and Louie Vermos	ADENOSINE REGULATES DEVELOPMENT DURING TISSUE REPAIR	Physiology and Behavioral Biology	Dr. Megumi Fuse	g
25	GL	Criseyda Martinez	MOLECULAR BASIS FOR HOST SPECIFICITY IN AVIAN MALARIA	Microbiology	Dr. Ravinder Sehgal	g
122	UP	Curtis Hilger and Joachim Pedersen	CLOSED-LOOP FEEDBACK CONTROL OF A HIGH FREQUENCY INDUCTIVE HEATING SYSTEM FOR NANOMATERIAL SYNTHESIS	Mechanical Engineering	Dr. Kwok-Siong Teh	u
95	UL	Damon Robles and Kay Saw	NITRITE REDUCTASE ACTIVITY OF GLYCATED HEMOGLOBIN	Chemistry	Dr. Raymond Esquerra	u

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72	GP	Daniel Hernandez	OPTICAL TAPPING AND MANIPULATION	Physics	Dr. Zhigang Chen	
12	GF	Danier riemandez	OF HOAL TAFFING AND MANIFOLATION	Filysics	Chen	g
50		D :15	A MAXIMUM PRINCIPLE FOR THE WEIGHTED			
58	GP	David Bangor	BERGMAN SPACE	Mathematics	Dr. Alex Schuster	g
			DETERMINING THE KINETIC MECHANISM OF		Dr. George	
83	UL	David Canio	STYRENE MONOOXYGENASE REDUCTASE	Biochemistry	Gassner	u
				Cell and		
			THE ROLE OF Nkx2-1 IN THE DEVELOPMENT OF	Molecular	Dr. Carmen R.	
2	GL	David Newstrom	THE VENTROMEDIAL HYPOTHALAMUS	Biology	Domingo	g
			THIN FILMS OF IRON II DISULFIDE (PYRITE) FOR		Dr. Andrew S.	
127	UP	Diana Mars	PHOTOVOLTAIC APPLICATIONS	Chemistry	Ichimura	u
					Dr. Thomas Bliem and Dr.	
59	GP	Dido Salazar-Torres	GENERALIZED ORDER AND CHAIN POLYTOPES	Mathematics	Federico Ardila	g
					Dr. Corkon	
66	GP	Eric Distad	THE IMPORTANCE OF THE LEADOFF BATTER	Mathematics	Dr. Serkan Hosten	g
67	GP	Eric Douglas Miranda	GRAPH OPERATIONS IN TROPICAL GEOMETRY	Mathematics	Dr. Serkan	
07	U	Life Douglas Milanua	OTALLI OF LIVATIONO IN TIVOLIOAL OLONILINT	iviau iciliaucs	1 1031011	g

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	J.P				7 10 7 10 0	
112	UP	Farah Soltane and Thomas Pedersen	MOUSE	Electrical Engineering	Mutlu Ozer and Dr. Tom Holton	u
113	UP	Fersan Winardja and William Diep	AN EXTERNALLY CONTROLLED MAGNETIC DISC SCREW DEVICE	Electrical Engineering	Dr. Tom Holton, Dr. Kwok-Siong Teh, and Dr. Hao Jiang	u
		Gregory S. Kielian, Di Lan, Xiao Wang, Tao Yu, and Shiyu Zhou	VERSATILE NETWORKABLE ROBOT	Engineering	Dr. Seapahn Megerian	g
47	GP	Gurdeep Singh, Sanket Parab, Ravi Soni, and Srijita Shrestha	a-TAT (ELECTRONIC TEAMWORK ASSESSMENT TOOL)	Computer Science	Dr. Dragutin Petkovic, James Wong, and Gary Thompson	g
96	UL	Heather Gregory and Charlie Bupp	RAPID IDENTIFICATION OF COUNTERFEIT DRUGS VIA X-RAY FLUORESCENCE SPECTROMETRY	Chemistry	Dr. Pete Palmer	u
23	GL	Henry Hunter	CONFIRMATION OF DICISTRONIC GENE STRUCTURES IN SEVERAL DROSOPHILID SPECIES	Cell and Molecular Biology	Dr. Chris Smith	g
114	UP	Hezekiel Randolph	RCL METER	Electrical Engineering	Dr. Tom Holton	u
14	GL	Holy Archer, Cagan Sekercioglu, and Chase Mendenhall	EFFECTS OF FOREST FRAGMENTATION ON THE PREVALENCE OF BLOOD PARASITES IN BIRDS OF COSTA RICA	Ecology and Systematics Biology	Dr. Ravinder Sehgal	g

Entry	Gro	team members	TITLE	Major/Conce	Advisor	d or Und
26	•	Hope M. Gray, N. Pinel, M.N. Ashby, C.B. Walker, H. Urakawa, C.W. Schadt, L. Sayavedra-Soto, and D.A. Stahl	GENOMIC ANALYSIS OF THE AMMONIA OXIDIZING ARCHAEON NITROSOCALDUS YELLOWSTONII HL72	Microbiology	Dr. Jose R de la	g
84	UL	Ignacio López-Peña and Jasmine Kristianto	DETERMINING THE CONFORMATIONAL EFFECTS CAUSED BY CO AND YC-1 BINDING TO SOLUBLE GUANYLATE CYCLASE	Biochemistry	Dr. Nancy Gerber and Dr. Raymond Esquerra	
3	GL	Jacquelynn R. Robinson, Ukina Sanford, and Laura N. Bull	Fic1-DEFICIENT MOUSE AS A MODEL OF CHOLESTATIC DISEASE MBRS-RISE GRANT: R25- GM59298	Cell and Molecular Biology	Dr. Frank Bayliss	g
103	UP	James O'Connell, Joshua Tse, Colby Lum, Tony Cheung, and Nik Favretto	ENGR697 GEOTECHNICAL GROUP #4	Civil Engineering	Dr. Timothy D'Orazio	u
15	GL	Jenny Carlson	PREVALENCE OF BLOOD PARASITES IN THE AVIFAUNA OF SOCORRO ISLAND , MÉXICO.	Ecology and Systematics Biology	Dr. Ravinder Sehgal	g
54	GP	Jia Huang	INTELLIGENT VEHICLE MOBILITY TCL SCRIPT GENERATOR FOR NS-2 SIMULATION	Engineering	Dr. Hamid Shahnasser	g
41	GP	Jinesh Lalan	CLOUD COMPUTING FOR DATA INTENSIVE APPLICATION	Computer Science	Petkovic, Mike Wong, and Dr Ljubomir Buturovic	g
123	UP	Joachim Pedersen	ZINC-CATALYZED, RAPID SYNTHESIS OF ULTRA LONG SILICA NANOFIBERS BY	Mechanical engineering	Dr. Kwok-Siong Teh	u

Entry	Gro	1		Major/Conce	A.I. 'a.a.	d or
#	up	team members	TITLE	ntration	Advisor	Und
42	GP	John Collins	THREE DIMENSIONAL RECONSTRUCTION OF KNOTS AND KNOTTED PARTICLES	Computer Science	Dr. Javier Arsuaga	g
115	UP	John Laberinto, Cassidy Louie, and Jeff Constantino	AUDIO SWITCHER	Electrical Engineering	Dr. Tom Holton and Dr. Hao Jiang	u
124		John Wudyts, Shifteh Einollahzadeh, Andrew Damele, Jeremy Martinez, Haris Alijagic, Laith Alawad, Hemel Yahya, and Emerson Malca	POWERED LAZY BOY	Mechanical Engineering	Dr. George Anwar and Dr. Dipendra Sinha	u
60	GP	Jon Yaggie	VARIETY OF FINITARY C-ALGEBRA HOMOMORPHISMS	Mathematics	Dr. Joseph Gubeladze	g
68	GP	Jonathan Terhorst	EFFECT OF COAL-FIRED POWER GENERATION ON VISIBILITY IN A NEARBY NATIONAL PARK	Mathematics	Dr. Serkan Hosten	g
108	UP	Jose Emerson Malca Gutierrez and Hemel Yahya	CARDIO VEST	Computer Engineering	Larry Klingenberg	u
16	GL	Julie S. Miller	THE RELATIONSHIP BETWEEN MATERNAL CARE AND EGG CANNIBALISM IN A COLONIAL EARWIG ANISOLABIS MARITIMA (DERMAPTERA: ANISOLABIDIDAE)	Ecology and Systematics Biology	Dr. Andrew G. Zink	g
61	GP	Juliet Portillo, Rob Scharein, and Dr. Javier Arsuaga	INVARIANCE OF THE SIGN OF THE AVERAGE SPACE WRITHE OF FREE AND CONFINED KNOTTED POLYGONS	Mathematics	Dr. Mariel Vazquez	g

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π	up	team members	TITLE	Intration	Advisor	Ond
		Kazue Matsuyama and Polin	NON-CRYSTALLINE PHOTONIC BANDGAP			
130		Yadak	MATERIAL STUDY	Physics	Dr. Weining Man	u
					<u> </u>	
		Kensuke Yamamoto, Jasmin				
		Kristianto, and Stephanie	S-NITROSYLATION OF SOLUBLE GUANYLATE		Dr. Nancy	
32		Wood	CYCLASE	Biochemistry	Counts Gerber	g
		Lea Lough, Kay Saw,	EFFECT OF THE HEME POCKET ENVIRONMENT			
		Benjamin Lintner, and Ignacio	ON THE NITRITE REDUCTASE ACTIVITY OF SW		Dr. Raymond	
33	GL	López-Peña	MYOGLOBIN	Biochemistry	Esquerra	g
			THE SIGNIFICANCE OF SECOND SHELL		Dr. Teaster	
34	GL	Lei Zhang	INTERACTION IN SERINE PROTEASE	Biochemistry	Baird, Jr	g
42	CD	Mara Capriole	EFFICIENT FINITE DIFFERENCE-BASED SOUND	Computer	Dr. Dill Have	
43	GP	Marc Sosnick	SYNTHESIS USING GPUS	Science	Dr. Bill Hsu	g
		Marily w Walton and Davi				
27		Marilyn Walton and Devi Paulvannan	HPV	Microbiology	Dr. Lily Chen	
<u> </u>	OL	1 daivamian	111 V	Wilciobiology	Dr. Elly Offeri	g
			DEVELOPMENT OF A BROAD-BASED ASSAY TO			
			MEASURE FLAVIN TRANSFER EFFICIENCY IN THE		Dr. George	
85	UL	Matt Gallagher		Biochemistry	_	u
		<u> </u>				
			Fe ANALYSIS OF BEER VIA HAND HELD XRF USING			
97	UL	Matthew Sanchez	CATION EXCHANGE RESINS	Chemistry	Dr. Pete Palmer	u

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π	up (Dis	team members		Intration	Auvisoi	Ona
	play		DIET AND FOOD WEBS OF THE CALIFORNIA RED-	Conservatio	Dr. Robert	
11	only)	Meghan Bishop	LEGGED FROG (RANA DRAYTONII)	n Biology	Drewes	g
		M: 1		Electrical		
		Michael Arce, David Chin, Cianan Duncan, Javier		and Mechanical	Dr. Kwok-Siong	
116	UP	Fernandez, and John Wudyts	SEARCH ROVER	Engineering	Teh	u
			GLOBAL ANALYSIS OF HISTONE SUBTYPE	Cell and		
			COMPOSITION IN C. ELEGANS SPERM USING	Molecular		
24	GL	Michael Yee	MudPIT MASS SPECTROMETRIC ANALYSIS	Biology	Dr. Diana Chu	g
					Dr. Adrienne	
			THE IMPACT OF A 5E CONCEPTUAL CHANGE		Cool and Dr.	
73	GP	Michelle Krok	APPROACH TO ASTRONOMY EDUCATION	Physics	Kimberly Tanner	g
			CD8+ CELL NONCYTOTOXIC ANTIVIRAL RESPONSE SUPPRESSES HIV-1 TRANSCRIPTION			
			IN PRIMARY MONOCYTE-DERIVED-		Dr. Jay Levy and	
28	GL	Michelle Wray	MACROPHAGES	Microbiology	Dr. Frank Bayliss	g
			REFINING THE CATALYTIC MACHINERY OF AN ENGINEERED THREONINE PROTEASE BY SITE-		Dr. Teaster	
35	GL	Mie A. Lansang	DIRECTED MUTAGENESIS	Biochemistry	Baird, Jr.	g
			USING THE MATHEMATICS OF TANGLES TO STUDY THE MECHANISM THE CELL EMPLOYS TO		Dr. Mariel	
82	UL	Mousa Rebouh	MAINTAIN GENETIC STABILITY	Mathematics		u
		Hunt, Nick Kim, Lindsay				
		Green, Eoin Sheeran, Alvin Piano, James Esoimeme, Jose		Civil	Dr. Cheng Chen and Dr. Timothy	
104	UP	Preciado, and Julie Leong	CONCRETE CANOE	Engineering	D'Orazio	u

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		Natalie Davis	COMPARISON OF DEUTERIUM MONOXIDE AND HYDROGEN MONOXIDE SOLVENT EFFECTS ON DIFFERENT SPECIES OF MYOGLOBIN LIGAND REBINDING AFTER CO PHOTOLYSIS	Biochemistry	Dr. Raymond	u
17	GL	Natalie Reeder	IS THE PACIFIC CHORUS FROG CARRYING A DEADLY FUNGUS?	Ecology and Systematics Biology	Dr. Vance Vredenbur g	g
69	GP	Nguyen Le	A LATTICE POINT ENUMERATION APPROACH TO PARTITION IDENTITIES	Mathematics	Dr. Matthias Beck	g
48	GP	Niranjan Timilsina	DEVELOPMENT OF A STAINED CELL NUCLEI COUNTING SYSTEM	Software Engineering	Dr. Kaz Okada	g
87	UL	Patience Adagba	ANALYTICAL PROTOCOLS FOR DETERMINATION OF PHTHALATES IN TOYS.	Biochemistry	Dr. Pete Palmer	u
74	· GP	Polin Yadak and Kazue Matsuyama	PHOTONIC BANDGAP MATERIAL WITH QUASI- CRYSTALLINE SYMMETRY	Physics	Dr. Weining Man	g
44	· GP	Pracheer Sehrawat, Gemma Lee Fu-Sun, Mandar Modgi, Trevor Blackstone, and Gurgen Tumanyan	IMPROVING FEATURE: ACADEMIC BIOINFORMATICS SOFTWARE FOR STANFORD UNIVERSITY	Computer Science	Dr. Dragutin Petkovic, Dr. Russ Altman, and Mike Wong	g
88	UL	Quynh Nguyen	SERINE PROTEASE: TRYPSIN VARIANT F41A	Biochemistry	Dr. Teaster Baird, Jr. and Mie Lansang	u

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3.0	GL	Raniel R. Alcantara	EXPLORING INDIRECT HYDROPHOBIC INTERACTIONS IN TRYPSIN	Cell and Molecular Biology	Dr. Teaster Baird, Jr.	
30	GL	INAIIICI IX. Alcantara	INTERACTIONS IN TIXTESIN	ыоюду	Baild, 31.	g
4	GL	Remy Vianney Binder, Seung Jong Lee, and Dr. Wilfred Denetclaw	ECTODERM CELLS EXPRESS PRIMARY CILIUM AND MECHANOTRANSDUCE CALCIUM AND NITRIC OXIDE SIGNALS	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
100	LID	Reza Hashemzade, Alisina Oshaghi, Joey Aduviso, Jose Garcia, Leyla Pirnia, and	WOODBDIDGE DESIGN	Civil and Environment al	D'Orazio and Dr.	
100	UP	Cristina Aragon	WOODBRIDGE DESIGN	Engineering	Cheng Chen	u
125	UP	Rochelle Desamito, Judith Krischke, and Richard Wang	VERTICAL AXIS WIND TURBINE	Mechanical Engineering	Dr. Kwok-Siong Teh	u
79	UL	Romica Kerketta	LOSS OF MEMBRANE RAFTS DEREGULATES INTRACELLULAR FREE CALCIUM IN C2C12 MYOBLASTS/MYOTUBES	Cell and Molecular Biology	Dr. Wilfred Denetclaw	u
70	GP	Ronald Youtz	TORIC IDEALS OF SMALL MATROIDS ARE GENERATED IN DEGREE 2	Mathematics	Dr. Serkan Hosten	g
22	GL	Sabina Bera and Jared Geibig	CHARACTERIZING CGMP REGULATION DURING ECDYSIS IN MANDUCA SEXTA	Physiology and Behavioral Biology	Dr. Megumi Fuse	g
118	UP	Salim Saikaly, Laith Alawad, and Muataz Hamad	MECHANICAL PHOTOSENSORY PATIO UMBRELLA	Mechanical and Electrical Engineering	Larry Klingenberg and Dr. Tom Holton	u

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#	up	Samuel Fitzer, Chris O'Gara, Chris Pioli, Jonathon Tai, Marissa Silvas, John Crain, Julian Jaramillo, Nadia	TITLE	Illiation	Auvisoi	Ond
105	UP	Berumen, Lester Aquino, and Cindy Lu	NATIONAL STUDENT STEEL BRIDGE COMPETITION	Civil Engineering	Dr. Cheng Chen	u
29	GL	Sandra Melloy	INHIBITION OF NITRIFICATION IN AMMONIA- OXIDIZING ARCHAEA	Microbiology	Dr. Jose de la Torre	g
40	(Dis play Onl	Saurabh Kumar	PODCASTING IN MOBILE WIMAX: ANALYSIS AND IMPLICATIONS	Electrical Engineering	Dr. Hamid Shahnasser	C
		Saurabh Subodh Gupte	REGULAR SPATIO-TEMPORAL PATTERNS IN MULTIPLE PROTEIN FOLDING TRAJECTORIES	Computer Science	Dr. Hui Yang	g
89	UL	Sayeeda P. Najibi	INTRODUCING NOVEL SUBSTRATE SELECTIVITY INTO TRYPSIN THROUGH REDESIGN	Biochemistry	Dr. Teaster Baird, Jr	u
6	GL	Seung Jong Lee	DYNAMIC PATTERNS OF ECTODERMAL NO AND Ca2+I LEVELS REGULATE NO SIGNALING ACTIVITIES TO THE PARAXIAL MESODERM FOR MYOGENESIS IN CHICKEN EMBRYOS	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
	(Dis play Onl y)	Sha Huang	HYDROLYSIS OF a-HALO AND a-CYANO PYRIDINIUM: A MODEL FOR OROTIDINE 5'- MONOPHOSPHATE DECARBOXYLASE (OMP DECARBOXYLASE)	Biochemistry	Dr. Weiming Wu	g
7	GL	Shani Chapman	IDENTIFICATION OF A SECOND SITE SUPPRESSOR OF CDC24 IN SCHIZOSACCHAROMYCES POMBE	Cell and Molecular Biology	Dr. Sally Pasion	g

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51	GP	Shankar Yanamandram	MAC PROTOCOLS FOR VANETS: ANALYSIS AND THEORETICAL IMPLEMENTATION	Electrical Engineering	Dr. Hamid Shahnasser	g
109	UP	Shawn Yee	PROJECT R.A.M.T.A.P.	Computer Engineering	??	u
	UL	Shi Choong	PROTEIN DYNAMICS USING COMPUTATIONAL CHEMISTRY APPROACH. STRUCTURAL FEATURES OF THE WILD TYPE SERINE PROTEASE	Chemistry	Dr. Anton Guliaev	u
39	GL	Shirin M. Usmani and Diana Mars	LOW-TEMPERATURE FABRICATION OF ANATASE FILMS WITH TUNABLE THICKNESS AND MORPHOLOGY	Chemistry	Dr. Andrew S. Ichimura	g
80	UL	Shivalee Gujarathi and Seung Jong Lee	Ca2+I AND NO RESULT IN PATTERNS OF CELL DEATH TO COINCIDE WITH SIGNALING ACTIVITY BY THESE MESSENGERS FOR CHICKEN EMBRYO DEVELOPMENT	Cell and Molecular Biology	Dr. Wilfred Denetclaw	u
52	GP	Shreyas Kumar Krishnappa	COMPARATIVE RELIABILITY ANALYSIS OF SRAM CELL DESIGNS IN NANO-SCALE TECHNOLOGIES	Electrical Engineering	Dr. Hamid Mahmoodi	g
36	GL	Sindy Liao	BIOCHEMICAL CHARACTERIZATION OF STYRENE OXIDE ISOMERASE FROM PSEUDOMONAS PUTIDA S12	Biochemistry	Dr. George Gassner	g
75	GP	Srikar Srinath	THE MAIN SEQUENCE BINARY FRACTION IN GLOBULAR CLUSTER NGC6397	Physics	Dr. Adrienne Cool	g

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37	GL	Stephanie M. Wood	CONFORMATIONAL STUDIES OF SOLUBLE GUANYLATE CYCLASE USING TIME-RESOLVED FLUOROMETRY	Biochemistry	Dr. Nancy Counts Gerber	g
106	UP	Steven Chua, Gloria Fernandez, David Dip, Chris Kekicheff, and Diana Loie	BIORADICAL BIOSAND FILTER: AN IMPROVED PERFORMANCE DELIVERY SYSTEM FOR SAFE DRINKING WATER	Civil Engineering	Dr. John Dracup	u
8	GL	Tenzin Bhutia	ECTODERMAL SPHINGOMYELIN IN LIPID RAFTS REGULATE MYOGENESIS IN CHICKEN EMBRYOS IN CONJUNCTION WITH NO SIGNALING	Cell and Molecular Biology	Dr. Wilfred Denetclaw	g
90	UL	Terrence O'Brien	ARYL-HETEROARYL UREAS (AHUs) BASED ON 4- AMINOQUINALDINE AS INHIBITORS OF THE INSULIN-LIKE GROWTH FACTOR RECEPTOR	Biochemistry	Dr. Marc Anderson	u
117	UP	Tim O'Keefe, Brock Roland, and Michael McIntyre	MIDI ACTUATED ROBOTIC VIBRAPHONE	Electrical and Mechanical Engineering	Dr. Tom Holton and Dr. Ed Cheng	u
62	: GP	Tim Wertz	INTERPOLATION IN THE UNIT DISK	Mathematics	Dr. Alex Schuster	g
126	UP	Timothy Sullivan, Nicolas Dibenedetto, and Gandiva Moss	SWITCHABLE V.O./V.C. PROSTHETIC HAND	Mechanical Engineering	Dr. Kwok-Siong Teh	u
18	GL	Tina Cheng	ROLE OF A PATHOGENIC FUNGUS IN THE DECLINE OF PLETHODONTID SALAMANDERS IN MEXICO AND GUATEMALA	Ecology and Systematics Biology	Dr. Vance Vredenburg	g

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45	GP	Tingting Sun	AUTOMATIC LESSON PLANNER	Computer Science	Dr. Kaz Okada and Dr. Susan Courey	g
107	UP	Tony Tam, Shiu Mak, Kakiu Ching, Ailin Liu, Jiayi Fu, Nicole Salde, and Shu Feng Yu	2010 NATIONAL TIMBER BRIDGE COMPETITION	Civil Engineering	Dr. Cheng Chen	u
30	GL	Trevor Gokey	THE ROLE OF THE C42-C58 DISULFIDE BRIDGE IN A CATALYTICALLY ACTIVE THREONINE PROTEASE VARIANT BY MOLECULAR DYNAMICS SIMULATION.	CCLS	Dr. Anton Guliaev	g
9	GL	Tyra McCray, Dr. Zeng-Hui He, Hongyun Tong, Xuefeng Sun, Gigi Yen, Huan Jin, Amy Sheldon, Dr. Colin Leasure	GENETIC DISSECTION OF UVB SIGNALING PATHWAYS IN ARABIDOPSIS THALIANA	Cell and Molecular Biology	Dr. Zheng Hui He	g
91	UL	Van Pham	USING A YEAST SCREENING TO IDENTIFY SITRT INHIBITORS FROM MARINE-DERIVED ACTINOMYCETES	Biochemistry	Dr. Taro Amagata	u
10	GL	Vanessa Aguilera	A NEED FOR NEW THERAPIES TO TREAT MYOCARDIAL INFARCTION THROUGH EXPLORATION OF CARDIOPROTECTIVE ELEMENTS FOUND IN BONE MARROW STEM CELLS AND IL-15	Cell and Molecular Biology	Dr. Carmen R. Domingo	g
99	UL	Viviana Cervantes	A CONTRIBUTION TO THE FIGHT AGAINST CANCER: SYNTHESIS AND CHARACTERIZATION OF LYSINE-SUBSTITUTED PHEOPHORBIDE-A IN THE QUEST FOR A SUPERIOR PHOTOSENSITIZER	Chemistry	Dr. Uschi Simonis	u

Entry	Gro			Major/Conce		d or
#	up	team members	TITLE	ntration	Advisor	Und
92	UL		INCREASED OXIDATIVE STRESS IN PEOPLE WITH DIABETES: THE EFFECT OF GLYCATION ON THE KINETICS OF THE ADULT HUMAN HEMOGLOBIN	Biochemistry	Dr. Raymond Esquerra	u
46	GP		MACHINE LEARNING BASED MEDICAL IMAGE REGISTRATION	Computer Science	Dr. Kaz Okada	g
40	GL		REMEDIATION OF NITROAROMATIC POLLUTANTS BY REDUCTION AND SURFACE ADSORPTION	Chemistry	Dr. Bruce Manning	g
63	GP		AN EXPLORATION OF BFACF ENTROPY & BIOLOGICAL APPLICATIONS OF SELF-AVOIDING POLYGONS IN THE SIMPLE CUBIC LATTICE	Mathematics	Dr. Yitwah Cheung, Dr. Rob Scharein, and Dr. Mariel Vazquez	g

Entry #	team members		Major/Conce ntration	Advisor	d or Und
	Montgomery, Phil Swigart, Paul Simpson, Marietta Panningbatan, and Bat Myagmar		Biochemistry	Dr. Teaster Baird, Jr	u
		BIOLOGY and CCLS			13
		CHEMISTRY & BIOCHEMISTRY		SUBTOTAL LIFE SCIENCES	19
		COMPUTER SCIENCE		OCILINOLO	0
		ENGINEERING GEOSCIENCES			26
		MATHEMATICS			5
		PHYSICS & ASTRONOMY		SUBTOTAL PHYSICAL	33
		DISPLAY ONLY			
		SEPAL 'DISPLAY ONLY' PROJECTS			
				GRANDTOTAL	65

Entry	Gro			Major/Conce		d or
#	up	team members	TITLE	ntration	Advisor	Und

sphingomyelin in lipid rafts regulate myogenesis in chicken embryos in conjunction

- 2. Name: Tenzin Bhutia, ID# 909135011, email id: bhuti04@gmail.com
- 3. Faculty Advisor's Name:

 Dr. Denetclaw, Wilfred

 (W8109640@sfsu.edu)
- 4. Department: Biology (Concentration Cell and Molecular Biology)

Entry	Gro			Major/Conce		d or
#	up	team members	TITLE	ntration	Advisor	Und

5. Level: Graduate

6. Abstract: abundantly expressed in the embryo ectoderm layer and is enzymatically processed into

Advisor email	Dep	Abstract	Email	Student ID	
		successful photodynamic therapy			
		(PDT) is based on an excellent			
		photosensitizer, which can treat	abdelazi@sf		
	Chemistry and Biochemistry	cancer and other serious	su.edu,	906401657	
		engineers is responsible to design		90743307;	
		multiple options of foundation	ail.com,	905050034;	
		designs to withstand the structure	smith_jennif	908298643;	
EJKuczynsk@aol.com,	Engineering	load requirement that were asked	er_ann@yah	906287244;	
		two small planetary bodies			
		orbiting a common center of			
		mass. To date, approximately 65	areiss@stars		
fmarchis@seti.org,	Physics and Astronomy	systems have been imaged using	.sfsu.edu,	901290733	
		explain evolutionary relationships			
		between taxa. Phylogenetic	adde@sfsu.	Addie Evans	
	Mathematics	invariants is a burgeoning method	edu,	908487104	
		published 60 GHz technology -			
		WiGig. It will introduce the specs			
		of WiGig and discuss some of the			
	Engineering	characteristics which present a	alanchan831@g	909877571	
		designed, constructed and loaded			
		a bridge to enter the 2010	nhasan2004		
		ASCE/FPS National Timber	@yahoo.co	905-89-8063	
chcsfsu@sfsu.edu,	Engineering	Bridge Design Competition. In	m,	PL	
		common occurring form of cancer			
		for women and is diagnosed in 1			
		in 8 women. Therefore, it is	pankov.alex		
jarsuaga@sfsu.edu,	Mathematics	essential to properly diagnose the	@gmail.com,	909008677	

Advisor email	Dep	Abstract	Email	Student ID
zhigang@sfsu.edu,	Physics and Astronomy	and experimentally that a beam can be reflected by a negative defect in photonic lattices if the incident angle is below a	apmiller@sfs u.edu,	907995028
fuse@sfsu.edu,	Biology	cuticle, is a process common to all insects to facilitate growth and development. It is often under circadian control. Ecdysis has	andcarry@sf su.edu,	900478636
hafernik@sfsu.edu,	Biology	colonies due to Colony Collapse Disorder (CCD) poses a serious threat to honey bee colonies and many agricultural crops. Honey	acore13@ya hoo.com,	910469981
beck@math.sfsu.edu,	Mathematics	nice objects, and are found throughout mathematics. Given a polygon P whose vertices have	aherrman@s fsu.edu,	907770765
ksteh@sfsu.edu,	Engineering	race car for our senior project. This required the team to implement their understandings of disciplines in the areas of	mail.com, kayvonee@g	908303700; 909076121; 909243483;
tholton@sfsu.edu,	Engineering	Mixer. The goal of our project is to design a device that will	dru03@sfsu. edu, chrisf@sfsu. edu,	907287347; 905616522
	Engineering	Designed radio control car that switches power from solar power and battery power automatically with user indication.	@gmail.com, kameifan5x @yahoo.co m,	906145466; 905751787
moffatt@sfsu.edu,	Biology	the CNS depends on the interplay between the growth and death of neurons in relationship to organism's age and the prevailing	anitayip@sfs u.edu,	906299477

Advisor email	Dep	Abstract	Email	Student ID
		photosensitizers into mitochondria is important for cell death by		
uschi@sfsu.edu,	Chemistry and Biochemistry	apoptosis rather than necrosis in Photodynamic Therapy (PDT). To	trinha@sfsu. edu,	907967364
		and PBTI) impact the reliability of SRAM in nano-scale CMOS	and Oafer	
mahmoodi@sfsu.edu.	Engineering	technologies. In this research, the combined effect of NBTI and	anujp@sfsu. edu,	909232225
	Biology	(ETH) is a peptide synthesized from peripheral glands lining the body wall of the hornworm, Manduca sexta. Fictive pre-	aaaveo@gm ail.com,	908132516; 909916753
cdomingo@sfsu.edu,	Biology	embryo become the muscle fibers of the adult. During embryo development, mesoderm cells elongate into muscle fibers and	vanjakrneta @gmail.com, armbien@sf su.edu,	908655844; 900076416;
hamid@sfsu.edu,	Engineering	practical everyday because of easy and quick installation. Security in this kind of network	tehrani@sfs	907488522
ganwar@integratedmotio ns.com, jianghao@sfsu.edu,	Engineering	becomes more important due to To design a wireless temperature sensing and control system with 2 main individual parts To build a wireless temperature transmitter with temperature	u.edu, biiiy_nui@m sn.com, raymondkho o11@yahoo. com,	
cheung@math.sfsu.edu,	Mathematics	approximation typically involves choosing a real number and finding the set of all rational numbers that are closest to that	beeta@sfsu.	908507748
dsinha@sfsu.edu,	Engineering	proposed to design and build an automatic basketball returner prototype. We set two Goals. Our first objective is to design and	gr@gmail.co m, hieuvo98@h otmail.com,	901679719; 909120789

A duis ou amail	Des	Abstract	Frank!	Children ID
Advisor email	Dep	Abstract	Email	Student ID
		approximately 1.5 million different		
		species of fungus in the world,	<u>brennanwen</u>	
		only about 10% of which have	ck@gmail.co	
ded@sfsu.edu,	Biology	been described in scientific	<u>m,</u>	902-444-262
		as spina bifida and anencephaly,		
		cause severe problems in		
		newborn babies. Wnts, a family of	csteng@sfsu	
lburrus@sfsu.edu,	Biology	secreted signaling proteins,	<u>.edu,</u>	907308134
		incidence in White women,		
		African American women have a		
		higher mortality rate and this	csamayoa@	
marquez@sfsu.edu,	Biology	disparity is growing. Current	sfsu.edu.	907044715
marqaozagoroa.oaa,	Biology			
		rare objects that populate a puzzling gap in the expected	spehrson@s tars.sfsu.edu	
Marzke@sfsu.edu,	Physics and Atronomy		tais.sisu.euu	909190937
<u>iviaizke@sisu.edu,</u>	I Trysics and Altonomy	continuum of galaxy morphology.	tomonawsi	909190937
			su.edu,	
		S	maison_blan	
			che94@sbcg	
	Biology	When injured, they show a	lobal.net,	906949438; ??
		multiple organisms: humans,		
		chimpanzees, reptiles and birds.		
			criseyda@sf	
	Biology	blood parasites and has	su.edu,	910471476
		heating system is used to heat a		
		nickel process chip to		
		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	chilger@sfsu.e	
	Engineering		du,	?
		mortality and morbidity worldwide,		
			damonrobles	
		· ·	@hotmail.co	
esquerra@sfsu.edu,	Chemistry and Biochemistry	•	m,	908497322

Advisor email	Dep	Abstract	Email	Student ID	
		techniques for optical trapping			
		and manipulation as well as new,	danh cuesta		
		novel methods. Specifically, we	@yahoo.co		
	Physics and Astronomy	aim to use optical beams	<u>m,</u>	910078603	
		Korenblum's maximum principle			
		for the weighted Bergman space			
		to help understand the nature of	db21212121		
schuster@sfsu.edu,	Mathematics	Korenblum's constant.	@gmail.com,	90839964	
		component enzyme consisting of			
		an FAD specific epoxidase and an	david canio		
		NADH specific reductase. The	@vahoo.co		
gassner@sfsu.edu,	Chemistry and Biochemistry	enzyme is involved in the	m,	908058871	
		factor, Nkx2-1, has documented			
		functions in the brain including	david.newstr		
		neuronal migration, differentiation,	om@gmail.c		
	Biology	and patterning. By binding to	om,	908445998	
		power, is the generation of voltage at the interface of two			
		materials that are exposed to	dmars@sfsu		
ichimura@sfsu.edu,	Chemistry and Biochemistry	•	.edu,	909180381	
ioriiiridra(&,orod.cdd.;	Onemistry and Biochemistry	light. Pyrite, a semiconductor with	.cuu,	30310001	
		chain polytopes to give an easier			
fodorica@math ofau adu		explanation of why the Gelfand-	duasiaza@af		
federico@math.sfsu.edu, bliem@math.sfsu.edu,	Mathematics	Cetlin and Feigin-Fourier-	dusalaza@sf su.edu,	910510359	
blieffi@ffatff.sisu.edu,	Iviatifernatics	Littelmann polytopes have the	<u>su.euu,</u>	910310339	
		the leadoff batter of an inning of a			
		professional baseball game. In			
	Mathematics	addition to comparing the	distad28@co		
<u> </u>	Mathematics	percentage of walked leadoff	mcast.net,	??	
		directed graph G we obtain a			
		linear subspace of a vector space			
		V. Through the linear operations	emiranda@s		
serkan@sfsu.edu,	Mathematics	of deletion and contraction on G	fsu.edu,	906-13-2726	

Advisor email	Dep	Abstract	Email	Student ID
			chokaa @h otmail.com, twp@sfsu.ed	910273499;
ozer@sfsu.edu	Engineering	It's a Computer Game		???
	Engineering	rare-earth magnetic disc quality to determine the unique property of magnetism and to use the magnetic discs as an externally certain tasks can be best done by		
engr844@seapahn.us,	Engineering	fixing global-warming, cleaning the Great Pacific Trash Vortex, and creating a sustainable agricultural system.	an@gmail.co m, landi0420@ gmail.com,	
dpetkovic@cs.sfsu.edu, jwong@sfsu.edu, gthomps@sfsu.edu,	Computer Science	Teamwork Assessment Tool pioneered at SFSU. It measures collaboration and cooperation within a team undertaking	su.edu, sanket@sfsu .edu, rsoni@sfsu.e	909771686;
	Chemistry and Biochemistry	propagation of counterfeit drugs, there is an urgent need for new analytical methods for rapid	su.edu, cbupp@sfsu. edu,	907189301; 910480485
smithcd@sfsu.edu,	Biology	single messenger RNA (mRNA) is a strategy common among prokaryotes and viruses, but not eukaryotic cells. While di- or multi-	hhunter@sfs u.edu,	905939858
	Engineering	serves as a basis for measuring and controlling electronics for the rapid prototyping purposes of hobbyists and engineers.	uniment@g mail.com,	908329713
sehgal@sfsu.edu,	Biology	determine how forest fragmentation, landscape mosaics, and the life history characteristics of avian hosts can	hollymarcher @gmail.com,	909762963

Advisor email	Dep	Abstract	Email	Student ID
jdelator@sfsu.edu,	Biology	(AOA) are a recently discovered group of microorganisms with an important role in global nitrogen cycling. We have sequenced the genome of Nitrosocaldus	hmgray@sfs u.edu,	905868345
ngerber@sfsu.edu,	Chemistry and Biochemistry	heme-based sensor that binds the gaseous ligands NO and CO. The binding of these ligands starts a		908293482; ??
fbayl@sfsu.edu,	Biology	(encoding FIC1) result in autosomal-recessive liver disease characterized by intrahepatic	hotmail.com, ReneeRLC @medsfgh.u csf.edu,	905380689
	Engineering	and design phases of the construction of a foundation for a building. Our goal is to analyze the soil properties of a pseudo-	gmail.com, favretton@g mail.com, acoldbee@y	903234922; 908678789; 902921830; 909-69-9913
	Biology	graysoni), endemic to Socorro Island, was last reported in the wild in 1972. The Island Endemics Foundation is planning the	jennysarac@ yahoo.com,	909663890
	Engineering	2 simulation tool. We have developed a new Tcl script generator tool to permit users create Tcl script files in a direct	jiah@sfsu.ed u.	906971798
mikewong@sfsu.edu, ljubomir@sfsu.edu,	Computer Science	such as genomics and proteomics, involves the analysis of huge amounts of data. To interpret this massive amount of	jinesh@sfsu. edu,	??
	Engineering	synthesis of SiOx nanofibers on a superheated Si(100) surface at high pressure. Using a high	joachimp@sf su.edu,	908912737

Advisor email	Dep	Abstract	Email	Student ID	
		are commonly used to elucidate			
		structures of different types of	johnssocks		
		small particles with precision	@yahoo.co		
	Computer Science	approaching that of x-ray	m,		
			yahoo.com,		
			cjl182@yaho	908152198:	
		Audio Switcher which will be able	o.com,	907305495;	
	Engineering	to cycle through four audio inputs.	jconst527@s	· · · · · · · · · · · · · · · · · · ·	
		ones leisure experience. To this	ail.com,	908762392;	
		end we, for our Materials and	shifteh@sfsu	· ·	
		Manufacturing process's and our	<u>.edu,</u>	907009095;	
		Mecatronics class, propose	dameleas@y		
		creating a powered drivable lazy	ahoo.com,	908422364;	
	Engineering	boy recliner via an application	prgiants22@	906365413;	
		commutative (unitary) C-			
		algebras. Assume V ? A and W ?	jyaggie@sfs		
soso@math.sfsu.edu,	Mathematics	B are finite dimensional C-linear	u.edu,	907616000	
		plant has long been considered a			
		major contributor to visibility			
		impairment in Grand Canyon	terhorst@sfs		
	Mathematics	National Park. The permanent	u.edu,	909924436	
		device used to train nurses to	ca@gmail.co		
		detect heart anomalies based on	m,		
		heart sounds. It is design to	hemel0516	907876312;	
larryk@sfsu.edu,	Engineering	reproduce	@hotmail.co	906365413	
		close proximity, balancing the			
		benefits of aggregation with the			
		costs to their own offspring in	jsmiller@sfs		
zink@sfsu.edu,	Biology	terms of threats from	u.edu,	909763067	
		properties of DNA molecules in			
		solution. We consider highly			
		compacted models of knotted	joules09@g		
mariel@sfsu.edu,	Mathematics	DNA, such as DNA extracted from	mail.com,	901552189	

Advisor email	Dep	Abstract	Email	Student ID
		prevent photons with certain	kazuem@sfs	
		frequency propagating inside	u.edu,	
			polin_y@yah	908518096
weining@sfsu.edu,	Physics and Astronomy		oo.com,	907085106
	i nyelee ana zieuenemy	control electromagnetic waves	00.00,	00.000.00
		catalyzes the conversion of GTP		
		to cGMP, a secondary messenger that binds to down stream cGMP-	ls 14 @	
	Chamistry and Biachamistry		k y@me.co	???
+	Chemistry and Biochemistry	dependent regulators that involve	<u>m,</u>	111
		blood cells supports vasodilatation		
		during hypoxia by converting	lea02_sweet	
		nitrite (NO2-) to nitric oxide (NO)	16@yahoo.c	
	Chemistry and Biochemistry	(1). The nitrite reductase activity	<u>om,</u>	908084416;??
		between Lys60 and Tyr39 and the		
		hydrophobic interaction between		
		Lys60 and Phe41 appear to fix	zl571222@sf	
tbaird@sfsu.edu,	Chemistry and Biochemistry	the position of Phe41 backbone	<u>su.edu,</u>	909182708
		can be the basis for physics-		
		based music instrument models		
		that generate realistic audio	marcsosnick	
whsu@sfsu.edu,	Computer Science	output. However, such methods	@mac.com,	903-524-536
			@comcast.n	
		study of information of HPV and	et.	
		best way to present to target	pdevi@sfsu.	908633133
lilychen@sfsu.edu,	Biology	audience	edu,	910-47-8444
, , , , , , , , , , , , , , , , , , , ,		Triis communication describes a	,	
		technique to measure coupling		
		efficiency between styrene	Adaph Maha	
	Chemistry and Biochemistry		AdephM@ho tmail.com,	908583317
	Chemistry and blochemistry	monooxygenase B of the styrene	unan.com,	90030331 <i>1</i>
		test the Fe concentration in Beer		
		Via Hand held XRF. Direct	matt.r.sanch	
		analysis of a beer sample via XRF		
palmer@sfsu.edu,	Chemistry and Biochemistry	was not possible because the	<u>m,</u>	907-109-923

	5		- "	04 1 415
Advisor email	Dep	Abstract	Email	Student ID
		(Rana draytonii) is federally listed		
		as Threatened. Baseline	meghanrbish	
rdrewes@calacademy.or		information on diet, prey	op@yahoo.c	
<u>g.</u>	Biology	availability, and food webs of the	om,	909760285
		structures due to accident, natural		900400727;
		disaster, or attack sometimes		900060595;
		creates conditions that are	marce@sfsu	908323811;
	Engineering	inconvenient or impossible for	<u>.edu,</u>	907118659
		chromatin composition, specificalli		
		with histone H2A, we conducted a		
		global analysis of sperm and	mikecyee@g	
chud@sfsu.edu,	Biology	embryonic chromatin proteins	mail.com,	907918666
		curricular planning approach		
		called the 5E Model (Engage,	epic shadow	
		Explore, Explain, Elaborate,	@hotmail.co	
kdtanner@sfsu.edu,	Physics and Atronomy	Evaluate), we developed five	<u>m,</u>	908471192
		viral replication in infected CD4+		
		T cells through the CD8+ T		
		•	mchllwray@	
jay.levy@ucsf.edu,	Biology	response (CNAR). CNAR is	gmail.com,	910474154
		are rarely found and one of the		
		few example is a multiunit protein		
		complex, proteosome, that	mlansang@s	
	Chemistry and Biochemistry	degrades the damaged proteins	fsu.edu,	906481334
		perform topological manipulations		
		on cellular DNA in order to		
		mediate a number of biological	mousa@sfsu	
mariel@math.sfsu.edu,	Mathematics	processes. Occasionally, two	<u>.edu,</u>	
		constructed to participate in the	.edu,	908-21-3584;
		2010 American Society of Civil	*	907-37-3342;
		Engineering Mid-Pacific	fsu.edu,	908-65-7638;
	Engineering	Conference	,	909-21-0892;

Advisor email	Dep	Abstract	Email	Student ID	
		experiment was to determine the			
		ligand rebinding affinity of			
		different species of myoglobin in	njdavis@sfs		
	Chemistry and Biochemistry	deuterium monoxide (D2O) and	<u>u.edu,</u>	907 06 2785	
		Nevada in California the mountain			
		yellow-legged frog is near			
		extinction from infection by a	reeder@sfsu		
vancev@sfsu.edu,	Biology	deadly fungus, Batrachochytrium	<u>.edu,</u>	909733635	
		be a list of positive integer (a_1,			
		a_2,,a_k) arranged in			
		descending order whose sum is t.	nle@sfsu.ed		
	Mathematics	The order of a partition gives rise	u,	908496477	
		applications that are designed to			
		be used to count the stained cells			
		in the microscopic image obtained	niranjan@sfs		
kazokada@sfsu.edu,	Computer Science	from the light microscope. Those	u.edu,	909446166	
		PVC-based consumer products.			
		The US Congress recently passed			
		legislation banning the use of six	omoadax@s		
	Chemistry and Biochemistry	different phthalates in children's	<u>fsu.edu,</u>	908008548	
		are structured electromagnetic	polin_y@yah		
		media which affect the motion of	oo.com,		
		photons and possess ban gaps.	kazuem@sfs	907085106;	
	Physics and Atronomy	They can be designed and	u.edu,	908518096	
		developed by the Helix Group at	u,	908208176;	
		Stanford University. Its primary	gfsavid@yah		
russ.altman@stanford.ed		purpose is to characterize the	oo.com,	909918417;	
<u>u,</u>	Computer Science	biological functions of unknown	mandarsmod	907614583	
		with the Serine Protease Trypsin			
		where the phenylalanine at			
		postion 41 is replaced with	kawaiign@y		
	Chemistry and Biochemistry	l.	ahoo.com,	908365203	

Advisor email	Dep	Abstract	Email	Student ID	
		protease which is found in most			
		animals. Trypsin has a broad			
		specificity, cleaving C-terminal to	raniel@sfsu.		
	Chemistry and Biochemistry	either arginine or lysine. Specific	edu,	906520594	
		chicken embryo produces	remy@sfsu.		
		dynamic intracellular free calcium	edu,		
		(Ca2+i) and nitric oxide (NO)	seunglee@sf	906006041	
w8109640@sfsu.edu	Biology				
wo 103040@Sisd.edu	Biology		su.edu, uauarezawy		
		bridge was to create a unique and		908210646;	
			crisargn@sfs		
		strength and efficiency. Though	u.edu,	908984549;	
	Engineering	the concept of the arch in nothing	joey_aduviso	907025579;	
		vertical axis wind turbine to see	u.edu,		
		the economics of a small scale	girlyengr@g	907395754;	
		wind turbine in the bay area as	mail.com,	909118592;	
	Engineering	well as seeing how well practice	rwang@sfsu.	908050083	
		a drug that is known to disrupt			
		lipid membrane rafts by extracting			
		cholestrol from the membranes.	romica15@h		
	Biology	Lipid raft disruption leads to	otmail.com,	909718828	
		the toric ideal associated with a			
		matroid is generated by quadratic			
		binomials associated with double	ryoutz@sfsu.		
	Mathematics	swaps. We prove this conjecture		909767487	
		a simpler model we can better	sbera@sfsu.		
		tackle elaborate pathways in more			
		complex species. One such	jeuu, jgeibig@sfsu	909736430	
	Biology	model known as ecdysis (the	,	•	
	Biology	inider known as codysis (the	.edu,		
			mail.com,		
		Build a photosensory, electric		909001215,	
		powered Patio Umbrella to	@gmail.com,		
	Engineering	provide shade on a specific area.	lyuth_84@ya	907966766	

Advisor email	Dep	Abstract	Email	Student ID	
	Engineering	Bridge Competition (NSSBC) is an annual civil engineering competition where each university has the opportunity to compete in the engineering design, fabrication, construction, and	sfsu.edu, cjogara@sfs u.edu, cpioli@sfsu. edu, jtai@sfsu.ed	908690008; 907900206; 909127614,905 729622; 908046586; 908603480;	
	Biology	increasingly apparent that ammonia-oxidizing archaea (AOA) contribute significantly to	sandymelloy @gmail.com,	909945574	
	Engineering	WiMAX is essentially a metropolitan area network (MAN) wireless technology for providing part of all	saurabhk19. s@gmail.co m,	909239960	
huiyang@cs.sfsu.edu.	Computer Science	living organisms and participate in virtually every process in the cell. In this project, we present an	ssgupte@sfs	909738783	
nuryang@cs.sisu.edu,	Chemistry and Biochemistry	approach to characterize the The objective of this research was to evaluate how a residue with hydrogen bond capability may affect substrate selection by a previously engineered threonine	phylis 82@y ahoo.com,	??	
	Biology	molecule produced by membrane raft associated nitric oxide synthases: nNOS and eNOS (collectively called cNOS) and	seunglee@sf	9070513987	
wuw@sfsu.edu,	Chemistry and Biochemistry	on the pyridinium ring were found to undergo facile substitution in buffer solution to produce corresponding 2-pyridones. On	harey0915@gmail.com,	di ay 909004478 oi	•
pasion@sfsu.edu,	Biology	Schizosaccharomyces pombe (fission yeast) is a novel protein that is involved in maintaining genome stability. Even though	chapman@s fsu.edu,	900075428	

Advisor email	Dep	Abstract	Email	Student ID	
		formulating efficient Medium			
		Access Control (MAC) protocols	shankaryr@		
	Engineering	for Vehicular Ad-Hoc Networks	gmail.com,		
		monitor temperature acquisition			
		program) solves the costly			
		problem of remotely monitoring	sbyee@sfsu.		
	Engineering	the temperature of a room or	<u>edu,</u>	904260101	
		simulations provides reliable			
		structural insights into the			
		conformational features of the	shi555@sfsu		
guliaev@sfsu.edu,	Chemistry and Biochemistry	biological molecules. These	.edu,	908276101	
		environmental applications in			
		oxidative photocatalysis and dye-			
		sensitized solar cells. Applications	shirin usmani	906998487;	
	Chemistry and Biochemistry	such as hybrid solar cells utilize	@yahoo.com,	909180381	
		provides important signals for the	seunglee@sf		
		development of the paraxial	su.edu,		
		mesoderm including regulating	svg@sfsu.ed	909692646;	
	Biology	somite and myotome formation.	<u>u</u>	907051397	
		Process (semiconductor			
		manufacture), voltage, and	shryaskumar		
	Engineering	temperature effect in SRAM	@gmail.com,	909292493	
		in the petroleum industry where it			
		is used to make plastic,			
		insulators, and rubber-based	laiyjan@yah		
	Chemistry and Biochemistry	products. Unfortunately, styrene	oo.com,	908802848	
		cluster that are binary has a major			
		impact on the dynamics and	srinath@sfsu		
cool@stars.sfsu.edu,	Physics and Atronomy	evolution of the cluster. Using	<u>.edu,</u>	907929040	

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Advisor email	Dep	Abstract	Email	Student ID	
		fluorometry to investigate the			
		decay lifetimes of the four			
		tryptophans in soluble guanylate	stephmwood		
	Chemistry and Biochemistry	cyclase (sGC). sGC is a heme	@gmail.com,	909729475	
		people die every year from			
		diarrheal diseases due to the lack	steven.p.chu		
		of safe drinking water caused by	a@gmail.co		
dracup@ce.berkeley.edu,	Engineering	crowding, poor sanitation, and	<u>m,</u>	910626917,	
		abundantly expressed in the			
		embryo ectoderm layer and is			
	Biology	enzymatically processed into	bhuti04@gmail.	909135011	
		system is an attractive target for			
		the development of new			
		anticancer drugs. The IGF system	obriente@sf		
marc@sfsu.edu,	Chemistry and Biochemistry		su.edu,	908769633	
		been designed for an existing	u,		
		musical instrument, the	broland@sfs	908449664;	
		vibraphone (Ref Figure 1). This	u.edu,	90105174;	
ascheng@sfsu.edu,	Engineering	attachment consists of two	michaelsmci	908100549	
		of analytic functions have a long			
		history.\$^4\$ While the definition of			
		interpolation is a bit technical, the	timwertz@g		
	Mathematics	idea is relatively straightforward.	mail.com,	909806448	
		power prosthetic hands: Voluntary			
		opening and voluntary closing;	m,	909104721;	
		however, there are not many	mmm.ribs@	909636655;	
	Engineering	prosthetics that combine both	gmail.com,	907981443	
		put approximately one-third of the			
		world's amphibians at risk of			
		extinction, and most recently, a	tlcheng@sfs		
	Biology	pathogenic chytrid fungus,	<u>u.edu,</u>	907885724	

Advisor email	Dep	Abstract	Email	Student ID
scourey@sfsu.edu,	Computer Science	designed as an online teaching system to assist the faculty and students in Special Education Department at SFSU. It aims to	tingtins@sfs u.edu,	909789483
	Engineering	Timber Bridge Design Competition. The competition required that each team design, build and test a	s@hotmail.c om, joshthemann _1328@yah	905612089; 907286918,
	Computer Science/Chemistry and Biochemistry	important role in the regulation of most biological processes. Malfunctions in this class of enzyme lead to a variety of our aviolet b (0 v b), an integral	tgokey@sfsu .edu,	908581549
zhe@sfsu.edu,	Biology	part of sunlight, affects all sun- exposed organisms. Typically	censea8@m sn.com,	???
amagata@sfsu.edu,	Chemistry and Biochemistry	been receiving global attention as anticancer target molecules. Currently, a dozen of classical HDAC inhibitors (classes I and II	thuyvan@sfs u.edu,	909926399
	Biology	of myocardial scarring and restoration of contractile ability have been explored but not perfected using cell therapy. During myocardial infarction (MI),	vanessa.agu ilera@yahoo .com,	??
	Chemistry and Biochemistry	The quest for a superior photosensitizer is imperative for further developing photodynamic therapy (PDT) as a clinically-feasible modality in the fight against cancer. In pursuit of this	<u>Cer3075@sf</u> su.edu,	902546013

Advisor email	Dep	Abstract	Email	Student ID
	Chemistry and Biochemistry	effect of glycation on the human hemoglobin. If the rate of autoxidation is increased in people with diabetes, then this	yadielk@yah oo.com,	909013916
	Computer Science	learning based feature selection solution for medical image registration. Image registration is	zhaoyang@li ve.com,	909180888
bmanning@sfsu.edu,	Chemistry and Biochemistry	as an effective reducing agent for nitroaromatic compounds (NACs) was investigated in this study. The reaction of 3-nitrotoluene (3-	ypatil@sfsu. edu,	909944287
rob@shaw.ca,	Mathematics	appears as a closed loop, or knot. This work aims to explore the		905 109 899

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Ulassically, aurenergic receptor antagonists such as carvedilol and propranolol have been used to treat heart failure in gomery@uc order to attenuate cardiac

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