METABOLIC RESPONSES TO ENVIRONMENTAL SALINITY IN THE CLAM CORBULA AMURENSIS  
By: Adam Paganini and Dr. Jonathon Stillman  
Marine Biology  
Faculty Advisor: Dr. Jonathon Stillman and Dr. Wim Kimmerer  
Abstract:  

DUAL ROLES OF THE CONSERVED GLC7/PP1 PHOSPHATASES, GSP-3 AND GSP-4, IN CHROMOSOME DYNAMICS AND SPERM ACTIVATION  
By: Aiza Cathe A. Go, Bernadette Nera, and Mark Samson  
Physiology & Cell and Molecular Biology  
Faculty Advisor: Dr. Diana Chu  

DECODING DARK MATTER: A DYNAMICAL CODE FOR THE JOINT ANALYSIS OF CLUSTER OBSERVATIONS  
By: Alison Mansheim  
Physics  
Faculty Advisor: Dr. Andisheh Mahdavi  

A GEOMETRIC APPROACH TO A NUMBER THEORETIC TOOL: THE BERNOULLI-DEDEKIND SUM  
By: Anastasia Chavez  
Mathematics  
Faculty Advisor: Dr. Matthias Beck  

By: Andrea Cayenne  
Marine Biology  
Faculty Advisor: Dr. Jonathon Stillman  

DESCRIBING ECDYSIS BEHAVIOR IN STICK INSECTS  
By: Andrew Carriman  
Physiology & Behavioral Biology  
Faculty Advisor: Dr. Megumi Fuse  

EFFECT OF BINDING FATTY ACIDS ON THE GLYcation OF HUMAN SERUM ALBUMIN  
By: April Ranney and Emelia Padilla  
Biochemistry  
Faculty Advisor: Dr. Raymond Esquerra  

XMAS: EXPERIENTIAL VISUALIZATION, MINING, AND ANALYSIS OF TIME-SERIES MICROARRAY EXPERIMENTS  
By: Ben Dalziel  
Computer Science  
Faculty Advisor: Dr. Hui Yang and Dr. Rahul Singh
PHOTOLYSIS OF SPERM WHALE CARBONMONOXYMYOGLOBIN.
By: Benjamin Lintner and Ignacio Lopez
Chemistry
Faculty Advisor: Dr. Raymond Esquerra
Abstract:
By: Carol Umanzor
Cell and Molecular Biology and Biological Education
Faculty Advisor: Dr. Kimberly Tanner

INVESTIGATION OF LOW SALINE RESISTANCE IN SINORHIZOBIUM MELILOTI
By: Charlene Navarrete
Cell and Molecular Biology
Faculty Advisor: Dr. Joseph Chen

EXPANDING YOUR HORIZON ANALYSIS
By: Chia Teoh
Cell and Molecular Biology
Faculty Advisor: Dr. Kimberly D. Tanner

INVESTIGATING BAY AREA FILIPINOS' IDEAS TOWARD ENVIRONMENTAL CONSERVATION IN A MUSEUM SETTING
By: Courtney Scott
Marine Biology
Faculty Advisor: Dr. Kimberly D. Tanner

USING HOMOLOGY TO DETECT COPY NUMBER VARIATION ASSOCIATED WITH BREAST CANCER RECURRENCE
By: Daniel DeWoskin
Mathematics
Faculty Advisor: Dr. Javier Arsuaga

A MODEL FOR SOCIAL NETWORKS
By: Elizabeth Gross
Mathematics
Faculty Advisor: Dr. Arek Goetz

STUDENT CONCEPTIONS OF WEATHER PHENOMENA ACROSS MULTIPLE COGNITIVE LEVELS
By: Elizabeth Polito
Geosciences
Faculty Advisor: Dr. John Monteverdi and Dr. Kimberly Tanner

THE EFFECTS OF WNT6 IN SOMITE PATTERNING
By: Eugenel Espiritu
Cell and Molecular Biology
Faculty Advisor: Dr. Laura Burrus
Abstract:

MOLECULAR SYSTEMATICS OF PHACELIA (BORAGINACEAE).
By: Genevieve K. Walden
Ecology and Systematic Biology
Faculty Advisor: Dr. Robert Patterson

ANALYSIS OF SRAM RELIABILITY UNDER VARIATIONS AND TRANSISTOR AGING EFFECTS IN NANO-SCALE
By: Harwinder Singh
Electrical and Computer Engineering
Faculty Advisor: Dr. Hamid Mahmoodi

EXIT STRATEGIES FOR STARTUP COMPANIES: A GAME THEORETIC APPROACH
By: Jasdeep Gambhir
Mathematics
Faculty Advisor: Dr. Jean-Pierre Langlois

ROLE OF CONFORMATIONAL CHANGES IN SOLUBLE GUANYLATE CYCLASE
By: Jasmin Kristianto, Kensuke Yamamoto, Stephanie Wood, and Makena Muchunku
Biochemistry
Faculty Advisor: Dr. Nancy Gerber

PROTEIN 3D STRUCTURAL MATCHING USING RESIDUE CONTEXTS
By:
Biochemistry
Faculty Advisor: Dr. Rahul Singh

TANGLESOLVE: A TOPOLOGICAL TOOL USED IN THE ANALYSIS OF SITE-SPECIFIC RECOMBINATION
By: Jennifer Lopez, Wenjing Zheng, and Dr. Mariel Vazquez
Mathematics
Faculty Advisor: Dr. Mariel Vazquez

ARTHROPOD DIVERSITY ON THE CALIFORNIA ACADEMY OF SCIENCES' GREEN ROOF
By: Jessica Van Den Berg and Christopher Quock
Ecology and Systematic Biology
Faculty Advisor: Dr. John Hafernik

A 3-D MAP OF THE BARTLETT SPRINGS FAULT, LAKE AND MENDOCINO COUNTIES, CALIFORNIA
By: Johnathan Brown
Geosciences
Faculty Advisor: Dr. S. John Caskey

POST-MIDDLE-PLEISTOCENE TECTONIC DEVELOPMENT OF THE
CONFIDENCE HILLS, SOUTHERN DEATH VALLEY, CALIFORNIA
By: Joshua T. Goodman, Dr. S. John Caskey, Dr. Elmira Wan, Dr. David B. Wahl, and
Dr. Andrei M. Sarna-Wojicicki
Geology
Faculty Advisor: Dr. S. John Caskey

Abstract:

SPHINGOMYELIN IN MEMBRANE RAFTS REGULATES C2C12 MYOBLAST
DIFFERENTIATION AND MYOTUBE FORMATION
By: Jung Lim and Yuko Okamoto
Cell and Molecular Biology
Faculty Advisor: Dr. Wilfred Denetclaw

COUNTING STANDARD AND SEMISTANDARD TREES
By: Jupei Hsiao
Mathematics
Faculty Advisor: Dr. Federico Ardila

M2K: A SEARCH FOR PLANETS ORBITING LATE K AND EARLY M DWARF
STARS
By: Kelsey Clubb
Astronomy
Faculty Advisor: Dr. Debra Fischer

S-NITROSYLATION OF SOLUBLE GUANYLYL CYCLASE
By: Kensuuke Yamamoto
Biochemistry
Faculty Advisor: Dr. Nancy Gerber

RAIL TRAFFIC CONTROL SIMULATOR FOR MAXIMIZING THROUGHPUT
By: Ko Narita
Mechanical Engineering
Faculty Advisor: Dr. V.V. Krishnan

TROPICAL ORIENTED MATROIDS
By: Kristen Freeman
Mathematics
Faculty Advisor: Dr. Federico Ardila

DETERMINATION OF THE NEUROTRANSMITTER THAT INHIBITS THE CNS
DURING ECYDSIS IN THE HORNWORM, MANDUCA SEXTA
UNDERSTANDING DISSOLVED ORGANIC CARBON
By: Leah Johnson
Applied Geosciences
Faculty Advisor: Dr. Tomoko Komada
Abstract:

WNTLESS-DEPENDENT DISTRIBUTION AND ACTIVATION OF WNT1 AND WNT3A
By: Lydia Li
Cell and Molecular Biology
Faculty Advisor: Dr. Laura Burrus

SENSITIZATION IN MANDUCA
By: Marissa McMackin and Emily Merchasin
Physiology and Behavior Biology
Faculty Advisor: Dr. Megumi Fuse

THE TRANSCRIPTION FACTOR ATF3 BINDS TO THE IFN-B PROMOTER IN MURINE MACROPHAGES STIMULATED WITH LPS
By: Marvin J. Sandoval
Cell and Molecular Biology
Faculty Advisor: Dr. Steve Weinstein

DIRECTIONAL MEAN SHIFT
By: Mehran Kafai and Yiyi Miao
Computer Science
Faculty Advisor: Dr. Kazunori Okada

INVESTIGATION OF DNA PACKING GEOMETRY IN P4 BACTERIOPHAGES
By: Mela Hardin
Mathematics
Faculty Advisor: Dr. Mariel Vazquez

AUTOMATED IMAGE-BASED PHENOTYPIC SCREENING FOR HIGH-THROUGHPUT DRUG DISCOVERY
By: Michalis Pittas and Ido Heskia
Mathematics
Faculty Advisor: Dr. Rahul Singh

THE EFFECT OF CALMODULIN AND CALCIUM BINDING ON THE REACTIVITY OF THE HEME ACTIVE SITE IN NNOS
By: Mike Minton, Pooncharas Tipgunlakant, Luiz Galdino, and Christopher M. Bernt
TOWARDS THE STUDY OF A PHYSICAL INTERACTION BETWEEN CDC24 AND THE CDS1 CHECKPOINT KINASE IN SCHIZOSACCHAROMYCES POMBE
By: Noel Cruz
Cell and Molecular Biology
Faculty Advisor: Dr. Sally G. Pasion
Abstract:
SOLUTION STRUCTURE OF PROTEINS BY MD SIMULATION
By: Qiuting Hong
Chemistry
Faculty Advisor: Dr. Sergio Aragon
THE ROLE OF INDIRECT HYDROPHOBIC INTERACTIONS IN SUBSTRATE RECOGNITION
By: Raniel Alcantara
Biology
Faculty Advisor: Dr. Teaster Baird, Jr.
UNDERSTANDING THE ROLE OF SWRAA IN SPORULATION IN A SWARMING STRAIN OF BACILLUS SUBTILIS
By: Rebecca Garcia
Cell and Molecular Biology
Faculty Advisor: Dr. Leticia Marquez-Magaña
THE ROLE OF LEUCOKININ IMMUNOREACTIVITY IN THE TOBACCO HORNWORM, MANDUCA SEXTA IN THE PROCESS ECDYSIS
By: Roth Ea
Cell and Molecular Biology
Faculty Advisor: Dr. Megumi Fuse
ORDERED TITANIUM DIOXIDE FILMS GROWN ON SELF-ASSEMBLED MONOLAYERS
By: Shirin M. Usmani, Diana Mars, and Dr. Andrew S. Ichimura
Chemistry
Faculty Advisor: Dr. Andrew S. Ichimura
METABOLOME ANALYSIS OF S. CEREVISAE
By: Stefan Jenkins
Cell and Molecular Biology
Faculty Advisor: Dr. Lily Chen
CONFORMATIONAL STUDIES OF SGC USING TIME RESOLVED FRET
By: Stephanie Wood
Biochemistry
Faculty Advisor: Dr. Nancy Gerber

THE ROLE OF P53 IN APOPTOSIS OF GASTROINTESTINAL TISSUE STEM CELLS OF LATE GENERATION TERT –/– MICE
By: Terry Reyes
Cell and Molecular Biology
Faculty Advisor: Dr. Sally G. Pasion
Abstract:

DEALING WITH THE GENDER PARTICIPATION GAP IN SECONDARY SCIENCE EDUCATION
By: Thomas Jenkinson and Priscilla Owren (Horace Mann Academic Middle School)
Ecology and Systematic Biology
Faculty Advisor: Dr. Kimberly D. Tanner

MICROARRAY ANALYSIS OF HEAT STRESS IN SAMOAN CORALS
By: Tyler Waterson and Dr. Jonathon Stillman
Marine Biology
Faculty Advisor: Dr. Jonathon Stillman

WEB-BASED TOOLS FOR ENHANCING TEACHER PREPARATION PROGRAMS
By: Xinhang Shao and Ngoc Lam-Miller
Computer Science
Faculty Advisor: Dr. Kazunori Okada

A SURVEY THE ENTROPY OF SELF-AVOIDING POLYGONS IN THE SIMPLE CUBIC LATTICE
By: Zoe Talbot
Mathematics
Faculty Advisor: Dr. Yitwah Cheung, Dr. Rob Scharein, and Dr. Mariel Vazquez

FEEL THE DIFFERENCE: A STUDY OF THE BODY’S RESPONSE TO TACTILE STIMULI
By: Abraham Reynoso, Joe DeBattista, Ngo Nguyen, and Stephanie Cunningham
Physiology and Behavior Biology
Faculty Advisor: Anne Thilges

FOUNDATION FOR A 20-STORY BUILDING
By: Adamross Lingad, Kimberly Sindac, Timothy Shu, Raul Verduzco
Civil Engineering
Faculty Advisor: Dr. Tim D’Orazio

TRUSS BRIDGE
By: Ahlong Shin, Noris Gomez, Vu Le, Charles Njoroge, and Mesfin Agegnehu
Civil Engineering
AIR TRAFFIC CONTROL TOWER
By: Ahmed Thleiji, WenPei Kuang, and Patrick Howell
Civil Engineering
Faculty Advisor: Multu Ozer
Abstract:

DESIGN OF A REVERSIBLY ACTIVATED TRYPsin VIA AN ENGINEERED METAL BINDING SITE
By: Anna Gubeladze
Biochemistry
Faculty Advisor: Dr. Teaster Baird, Jr.

ROLE OF WNT4 ON MYOGENESIS DURING EARLY EMBRYONIC DEVELOPMENT IN THE CHICK
By: Anthony Eritano
Cellular and Molecular Biology
Faculty Advisor: Dr. Laura W. Burrus

STUDYING SPOOLING-LIKE CONFORMATIONS FOR DNA KNOTS IN WRITHE-DIRECTED ORGANIZATION OF DNA IN PHAGE CAPSIDS OF BACTERIOPHAGE P4
By: Ariff Moolla and Mela Hardin
Biology and Mathematics
Faculty Advisor: Dr. Sally G. Pasion and Dr. Javier Arsuaga

CHARACTERIZATION AND DYNAMICS OF WATER ACCESSIBLE AREAS IN THE HYDROPHOBIC INTERIOR OF PROTEINS USING A COMPUTATIONAL APPROACH
By: Ben Rodriguez
Biochemistry
Faculty Advisor: Dr. Anton Guliaev

THE AVERAGE CROSSING NUMBER OF EQUILATERAL POLYGONS IN CONFINEMENT
By: Benjamin Borgo, Rob Scharein, Yuanan Diao, and Dr. Javier Arsuaga
Applied Mathematics
Faculty Advisor: Dr. Javier Arsuaga

MITOCHONDRIAL DNA STRUCTURE IN TRYPANOSOME
By: Chris Keown
Mathematics
Faculty Advisor: Dr. Javier Arsuaga
SYNTHESIS AND CHARACTERIZATION OF ZEOLITE MFI FILMS USING TPA-F AND TPA-OH STRUCTURE DIRECTING AGENTS
By: Chris Reaves
Chemistry
Faculty Advisor: Dr. Andrew S. Ichimura

REAL-TIME IMPACT LOGGER & ANALYSIS
By: Christina Phan, Teo Limbo, and Eli Lyons
Electrical Engineering
Faculty Advisor: Dr. Tom Holton
Abstract:

CNG LAWNMOWER
By: Christopher Fernandez, Paul Stelter, and Yeygeuiy Shkelev
Mechanical Engineering
Faculty Advisor: Dr. Kwok-Siong Teh

UNIMODALITY OF ORDER POLYNOMIALS THROUGH THE STUDY OF EHRHART SERIES OF ORDER POLYTOPES
By: Christopher O'Neill
Mathematics
Faculty Advisor: Dr. Matthias Beck

THE PRESIDIO BEE BIODIVERSITY SURVEY
By: Christopher Quock and Jessica Van Den Berg
Ecology and Systematic Biology
Faculty Advisor: Dr. John Hafernik

THE EFFECTS OF NON-ENZYMATIC GLYCATION ON THE NITRITE REDUCTASE ACTIVITY OF HEMOGLOBIN
By: Damon Robles, Yadiel K, and Kay Saw
Chemistry
Faculty Advisor: Dr. Raymond Esquerra

SONIC STICK
By: Danny Azar and Ho Yin Chan
Electrical Engineering
Faculty Advisor:

MEMBRANE COMPOSITION AND GENE EXPRESSION DURING THERMAL ACCLIMATION IN PORCELAIN CRABS
By: Daria Ronges
MarineBiology
Faculty Advisor: Dr. Jonathon Stillman

BROTHERHOOD WAY STORM WATER REMEDIATION
LOW POWER WIRELESS MEDICAL MONITORING SYSTEM
By: Di Lan, William Yu, and Dennison Lorenzana
Electrical Engineering
Faculty Advisor: Dr. Hao Jiang and Dr. Tom Holton
Abstract:

SELF-ASSEMBLED MONOLAYERS TO SUPPORT THE GROWTH OF INORGANIC FILMS
By: Diana Mars and Shirin M. Usmani
Chemistry
Faculty Advisor: Dr. Andrew S. Ichimura

MEMBRANE RAFT DISRUPTION IN CHICKEN EMBRYO SKELETAL MUSCLE CELL CULTURES
By: Dianna Baldwin
Zoology
Faculty Advisor: Dr. Wilfred Denetclaw

CHARACTERISTICS OF AN ALUMINUM (III) PHEOPHORBIDE-A SERINE DERIVATIVE AS POTENTIAL USE IN PHOTODYNAMIC THERAPY
By: Diem Huynh
Chemistry
Faculty Advisor: Dr. Ursula Simonis

GROWTH STUDIES OF ORIENTED MFI ZEOLITE FILMS AS A FUNCTION OF TIME
By: Dina Flamik
Chemistry
Faculty Advisor: Dr. Andrew S. Ichimura and Dr. Uschi Simonis

SOLAR TRACKER
By: Eugene Russiyanov, Jed Hewitt, and Kate Tun
Electrical Engineering
Faculty Advisor: Dr. Hao Jiang and Dr. Hamid Shannaser

TIMBER ARCH BRIDGE
By: Fabian Gomez, Greg Paulson, Luis Hernandez, Jack Chen, Mikhail Ernakovich, Yonatan Andemariam, Miguel Escudero, and Jose Reynolds
Civil Engineering
Faculty Advisor: Mutlu Ozer

SUPER SCIENCE
By: Gaelen S. Smith, and Alyssa Berry  
Physiology and Zoology  
Faculty Advisor: Dr. Christopher Moffatt

AUTONOMOUS MICROMOUSE  
By: Hailu Keremo, Harrit Bains, and Loon Phang  
Electrical Engineering  
Faculty Advisor: Dr. Hao Jiang

Abstract:

COMPARATIVE STUDY OF LDH STABILITY IN RESPONSE TO PHYSIOLOGICAL STRESS ON TROPICAL AND TEMPERATE PORCELAIN CRABS  
By: Haydee Medina  
Marine Biology  
Faculty Advisor: Dr. Jonathon Stillman

ANNOTATION OF SEVERAL DICISTRONIC GENES IN 12 DROSOPEGILID SPECIES  
By: Henry Hunter, Teresa Laird, Christina Staubus, Lala Motlhabi, and Dr. Christopher D. Smith  
Cell and Molecular Biology  
Faculty Advisor: Dr. Christopher D. Smith

SYNTHESIS, CHARACTERIZATION, AND SUBCELLULAR LOCALIZATION OF MITOCHONDRIA-BASED PORPHYRINIC PIGMENTS  
By: Hnin Khin  
Biochemistry  
Faculty Advisor: Dr. Uschi Simonis and Dr. Meden Issac

RAPID SYNTHESIS OF HIGH-ASPECT RATIO ZINC OXIDE NANOWIRES BY A CATALYST-FREE, LOW-POWER INDUCTIVE HEATING PROCESS  
By: Joachim Pedersen  
Mechanical Engineering  
Faculty Advisor: Dr. Kwok-Siong Teh

BEER BOT: AUTOMATIC BEER POURING MACHINE  
By: Jonathan Hughes, Marvic Verzano, and Colin Muschette  
Electrical and Mechanical Engineering  
Faculty Advisor: Dr. Tom Holton

SYNTHESIS AND CHARACTERIZATION OF AMINO ACID SUBSTITUTED PHEOPHORBIDES  
By: Kara Cross  
Chemistry  
Faculty Advisor: Dr. Ursula Simonis
THE EFFECTS OF DISSONANT AND CONSONANT MUSIC ON HEART RATE, EEG BRAIN WAVE PATTERNS, AND GALVANIC SKIN RESPONSE
By: Kristina Millikan, Lisa Wise, Inara Iskenderova, and Farnaz Kholousi
Physiology and Behavior Biology
Faculty Advisor: Anne Thilges

EXPLORING THE REPRODUCIBILITY AND VALIDITY OF COMPARATIVE QUALITATIVE POLYMERASE CHAIN REACTION
By: Laura Cooper
Biochemistry
Faculty Advisor: Dr. Elizabeth Runquist

INVESTIGATION OF PROTEIN INTERACTIONS THAT CONTROL THE NITRITE REDUCTASE ACTIVITY OF HEME PROTEINS
By: Lea Lough
Biochemistry
Faculty Advisor: Dr. Raymond Esquerra

NADH AND METAL BINDING EQUILIBRIA OF PHENYLACETALDEHYDE
By: Levenlou Vender
Biochemistry
Faculty Advisor: Dr. George Gassner

REDUCTIVE IMMOBILIZATION OF SELENIUM OXYANIONS BY ZERO-VALENT IRON SURFACES
By: Marisa Miller
Biochemistry
Faculty Advisor: Dr. Bruce Manning

ACCEL-O-MOUSE (CODENAME YODA)
By: Mathew Brady, Victor Mannuel, and Lalesh Sharma
Electrical Engineering
Faculty Advisor: Dr. Hao Jiang

ANAEROBIC DEGRADATION OF ORGANIC CARBON IN AN INTERTIDAL SEDIMENT: RELATIVE IMPORTANCE OF MAJOR ELECTRON ACCEPTORS
By: Mayu Kawaguchi and Jonathon A. Polly
Chemistry
Faculty Advisor: Dr. Tomoko Komada and Dr. Uschi Simonis

HUMAN POWERED VEHICLE
By: Michael Diep, Ahmed Hassani, and Kevin Ng
Mechanical Engineering
Faculty Advisor: Dr. Kwok-Siong Teh
MECHANISM OF STYRENEOXGENASE WITH SUBSTRATE ANALOGS AND
INHIBITORS
By: Mie Win
Biochemistry
Faculty Advisor: Dr. George Gassner

WIRELESS POWER TRANSFER
By: Mojan Norouzi, David Munguia, Akhil Malik, and Zeeshan Ali
Electrical Engineering
Faculty Advisor: Dr. Hao Jiang
Abstract:

JET ENGINE
By: Patrick Moore, Nicholas Ng, and Nick Certo
Mechanical Engineering
Faculty Advisor: Dr. Kwok-Siong Teh and Dr. A. S. Ed Cheng

CONSTRUCTION OF LATTICE KNOTS FROM THE GAUSS CODE
By: Nicholas Normandin
Mathematics
Faculty Advisor: Dr. Mariel Vazquez

SMART MAGNETIC CARD READER FOR THE SCIENCE BUILDING
By: Noppol Setobol, Akeem Abodunrin, and Ronnie Roraldo
Computer Engineering
Faculty Advisor: Dr. Hamid Shahnasser

THE ELECTRIC MOTORCYCLE PROJECT
By: Oliver Burke and David Shirling
Mechanical Engineering
Faculty Advisor: Dr. Kwok-Siong Teh and Dr. A. S. Ed Cheng

WORK IN PROGRESS
By: Paula Robinson
Physiology and Behavior Biology
Faculty Advisor: Dr. Jonathon Stillman

GUIDING AND ROUTING LIGHT ALONG DEFECT CHANNELS: FROM
IMPERFECTION TO PERFECTION.
By: Ratna Lama
Physics
Faculty Advisor: Dr. Zhigang Chen

CHICKEN EMBRYO DEVELOPMENT: REGIONAL AND TEMPORAL
DEVELOPMENT OF SOMITES
DEVELOPMENT OF A NEW FIELD METHOD FOR DETERMINATION OF ARSENIC IN DRINKING WATER USING ION EXCHANGE RESINS AND HANDHELD X-RAY FLUORESCENCE ANALYZER
By: Rene L. Johnson and Peter E. Baker
Biochemistry
Faculty Advisor: Dr. Pete T. Palmer
Abstract:
ARE SEASTARS OF THE GENUS LEPTASTERIAS SEPERATED BY HABITAT IN THE ROCKY INERTIDAL OF NORTHERN CALIFORNIA? AN ANALYSIS OF MITOCHONDRIAL DNA AND MORPHOLOGY
By: Richard Coleman, Alyssa Lai, and Ashley Smith
Marine Biology
Faculty Advisor: Dr. Sarah Cohen

PROGRESSIVE METAL STAMPING DIE
By: Richard Moore
Mechanical Engineering
Faculty Advisor: Dr. Kwok-Siong Teh

HIGH SPEED RAIL STATION
By: Robert Halliday, Colin Kemper, Lucas Zimmer, Marjess Tacoban, Shiraz Muzaffar, and Sunia Malolo
Civil Engineering
Faculty Advisor: Dr. Wenshen Pong

INTRODUCING NOVEL SUBSTRATE SELECTIVITY INTO TRYPSIN THROUGH REDESIGN
By: Sayeeda Najibi
Biochemistry & Cell and Molecular Biology
Faculty Advisor: Dr. Teaster Baird, Jr.

SOLAR POWERED BATTERY CHARGER
By: Scott Siordia, Yves Fotso, James Carolino, and Kris Quismorio
Electrical Engineering
Faculty Advisor: Dr. Hao Jiang

NEW SFSU ENGINEERING HALL
By: Sean Jaime, James Go, Carrie King, and Tiffany Chin
Civil Engineering
Faculty Advisor: Dr. Wenshen Pong
SYNTHESIS OF AN ARGinine SUBSTITUTED PEOphORBiDE-A AS EFFECTive PHOToSEnSITiZeRS FOR PHOTODYNaMIC THERAPy (PDT)
By: Soohwan Kim
Chemistry
Faculty Advisor: Dr. Uschi Simonis

SURFACE CHEMISTRY UNDER PHOTOLYSIS
By: Stéphanie Cherdo
Chemistry
Faculty Advisor: Dr. Andrew S. Ichimura
Abstract:

INVERTED PENDULUM ROBOT
By: Tim Wang and Curtis Hilger
Electrical Engineering
Faculty Advisor: George Anwar

GEOTECHNICAL ENGINEERING OF FOUNDATION DESIGNS
By: Travis Haft, Radoslaw Stamcher, Devon Crowe, and Stephen Jo
Civil Engineering
Faculty Advisor: Dr. Tim D'Orazio

HECKE OPERATORS ON PALINDROMIC POLYNOMIALS
By: Whitney Zeldow
Mathematics
Faculty Advisor: Dr. Matthias Beck

THE PLIOCENE RESPONSE TO WARNER THAN MODERN SEA SURFACE TEMPERATURES IN COASTAL UPWELLING REGIONS
By: Zi Zi Searles
Geology
Faculty Advisor: Dr. Petra Dekens

cam in office 4/15 wanting to register
By: Rozaliya Rangelova
Faculty Advisor: