

13th
Annual

4.19.18

2017 Presidents Award:
Spencer Jarrad
Creating Pedagogical Tools with
Modern Technology

2017 1st Place Award:
Linda Hedlund Faunal
Analysis of Vertebrate
Remains from an
Archaeological Site in
Penasquitos Canyon

2017 2nd Place Award:
Emily Votel
Spoken Word for "Hate"

2017 3rd Place Award:
Naomi
Cosmetology

SAN DIEGO
CITY COLLEGE

STUDENT PROJECT & RESEARCH SYMPOSIUM

www.sdcity.edu/symposium



13th Annual San Diego City College Student Project & Research Symposium

April 19th, 2018

Dear Students, Campus Colleagues and Community Friends:

It is my great pleasure to welcome students, faculty, staff and the community together to celebrate the San Diego City College Annual Student Project and Research Symposium. This “Celebration of Student Excellence” is a campus-wide event recognizing the outstanding achievements of our students and the dedication of our faculty to student success.

Each year the Symposium exceeds its success from the previous year in attendance and participation. For the fourth year, the Symposium is presented in conjunction with the College’s annual Community Open House Day. For 2018, 200+ students representing more than 40+ academic majors, showcase their best work through 80 poster presentations, numerous oral presentations, radio/TV excerpts, PowerPoint presentations, spoken word, performances, demonstrations, and Fine Art displays.

I welcome you to explore and learn more about our College mission and values and understand why our campus community is so proud of our students. Although we come from different places, we join together here at City College focused on one goal: student success. Collaborating together, the City College Symposium melds the extraordinary efforts of faculty mentors and hard-working students to create a body of research work with endless possibilities for advanced studies across many disciplines.

On behalf of our entire college, I commend the Symposium Committee, volunteers and staff for the planning and collective efforts in bringing this signature event to life for the campus and community to enjoy.

Sincerely,

A handwritten signature in black ink that reads "Ricky Shabazz".

Ricky Shabazz, Ed.D.
President
San Diego City College
rshabazz@sdccd.edu

Dear City College Community and Guests:

It is with great pride that we welcome you to the 13th Annual City College Student Project and Research Symposium. Today you will tap deeply into the spirit of City College, and it is going to be a great experience for you. As a visitor, you will see, hear and feel the blossoming talents of many of our finest students, who have proudly brought their creative work to the AH/BT Quad to share with you - *their college family and community friends*. You will marvel at the discipline, dedication and hard work that have been invested in their projects. And you will be inspired by the enthusiasm and inventiveness that permeates every display and performance.

This Symposium will highlight a multitude of research questions, showcase inquiry, critical analyses and scholarship. What does the symposium represent to us at City College?

- First and foremost, a vibrant campus community actively engaged in the pursuit of knowledge, the research process, creativity and excellence.
- The breadth of experiences and opportunities available to students - whether they're in physical or life sciences, mathematical pursuits or creative and performing arts.
- The inclusivity and diversity of our community.
- Our college commitment to student learning realized.
- Respect and support of our student achievements.
- A realization that there are no boundaries on what individual students can either learn or become at City College.
- That there are no limits! This Symposium is but a first step for students as they continue their quest for knowledge and future achievement.

Today you will become an important player on our stage, in some ways as important as the presenters themselves! As proud as they may be about their work, you see, until today it has largely been unexpressed, unseen, unappreciated by others. And students, like any other performers, need to play to an audience. Indeed, it's you – *their audience*, who gets to spark the real fun today, and ignite the joy of sharing, and fan the flame of pride and self-confidence. So please, everyone, jump right in and bring your excitement and enjoyment for all of us to share. Make it a point to pause often among the displays, introduce yourself to a proud but nervous presenter or performer, ask them about their work or future plans, and sprinkle a handful of compliments as you pass. Your applause will last them a lifetime!

We invite you to help judge the presentations. At the information table are judging rubrics and ballots. The overall award will be given by President Shabazz. The Science award by Vice President Spradley, and the Fine Arts award by Dean Gerald. Your help, even as a guest, will validate the selection process.

We're so glad you're here - *enjoy the Symposium!*

Symposium Organizing Committee:

Trevor Walker, Outreach Program Coordinator
Edgar Hopida, Public Information Officer
Misael Camarena, Professor of Mathematics
Robert Sly, Professor of Communications
Erin Engstrom, Professor of Communication

George Jessup, Professor of Mathematics
Deanna Shelton, Professor of Communication
Carol Withers, Professor and
City College Librarian
Patricia Fernandez, Supervisor Duplicating

Disclaimer: *The goal of the Symposium Organizing Committee is to celebrate student excellence and promote undergraduate research awareness and interest among students, faculty, staff and administrators. The student presentations are designed to benefit the academic, intellectual and cultural development of the City College community. The Symposium presentations do not necessarily reflect the views of City College, the San Diego Community College District or the campus community that supports the educational achievement of students.*



San Diego City College was honored to be selected in 2008 by the national Council on Undergraduate Research (CUR) to participate in its *Program on Institutionalizing Undergraduate Research* – a program sponsored by the National Science Foundation. Participation in the CUR program has enabled City College to build upon existing research activities – including this Symposium and broaden the institutional culture of research. One of only 64 schools selected nationally, City College was the only community college participating from the West Region.

With mentoring from CUR, a campus-based Undergraduate Research Collaborative (URC) was created to promote undergraduate research awareness and interest among students, faculty and administrators. At City College, undergraduate research is defined as an inquiry or an investigation conducted by a student in collaboration with a faculty mentor. Undergraduate research provides

opportunity for the intellectual growth of students via exploration and application of existing knowledge that may also lead to an intellectual or creative contribution to the discipline. City College is poised to increase opportunities for engagement in regional and national discussions of trends in higher education and new research directions, including partnering with other institutions and pursuing external funding. The ultimate goal is to have City College become a community college model for undergraduate research.

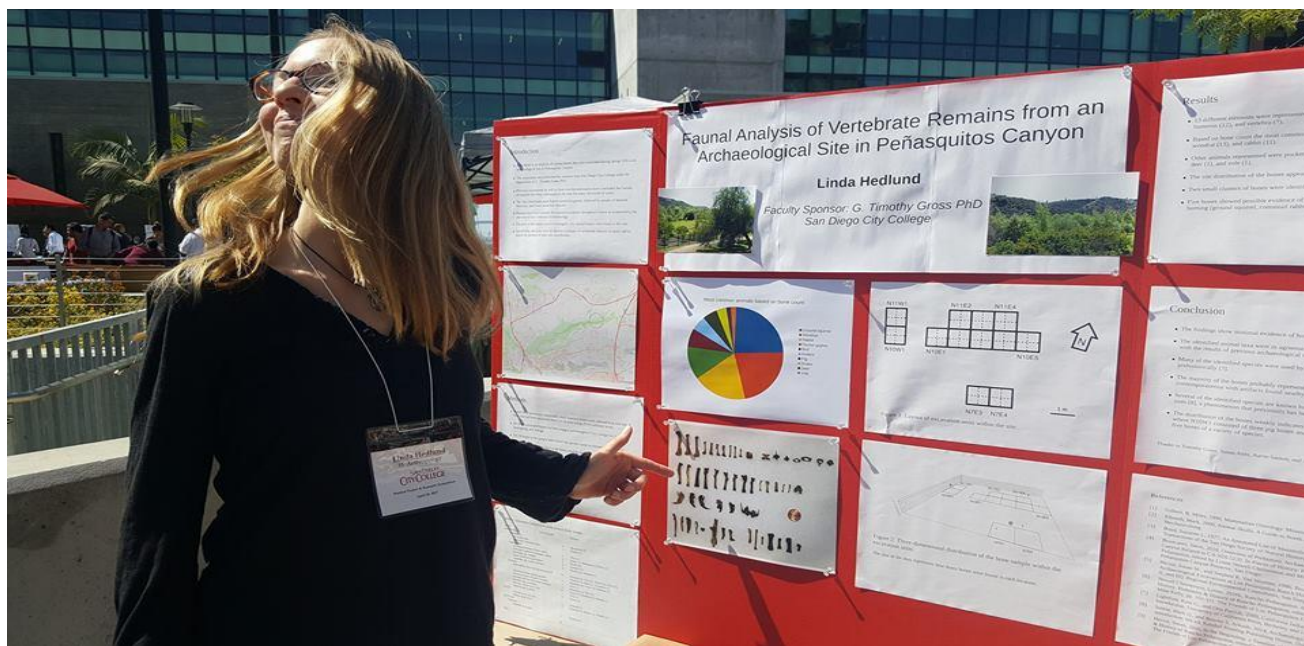
Our thanks and appreciation to our faculty mentors for supporting students in the pursuit of excellence.

Anthropology	Arnie Schoenberg
Chicano Studies	Monica Hernandez
Communications	Erin Engstrom
	Deanna Shelton
Cosmetology	Sudabeth Phillips
English	Aileen Gum
	Patricia McGhee
	Jennifer Boots
	Christy Ball
	Gina Barnard
	Kevin Gossett
Business	Nancy Fredericks
	Leroy Brady
	Tania Serhan
Biology	Heather Heinz
Chemistry	Robert Kojima
Fine Art	Terri Hughes-Oelrich
	Wayne Hulin

Health & Exercise Science	Alan Rivera
	Ellen Turkel
Mathematics	Guillermo Alvarez
	Misael Camarena
	George Jessup
Political Science	Nicholas Boushee
Price Scholarship/ Mental Health	Leslie Easton
Psychology	Kim Sweeney
	Penelope Mercer
Puente/ Counseling	Luis Perez
Radio/TV	Laura Castañeda
	Cy Kuckenbaker
	Bob Sly
Sociology	David Gauss
	Tim Gross
	Sarah Pitcher



Our Poster Presenters



1. Political Polarization: Myth or Reality?

Haley Ragan

Mentor: Nicholas Boushee- Political Science

Major: Political Science

2. Math in Fitness

Alexandra Respes, Blanca Alba

Mentor: Misael Camarena - Mathematics

Major: Zoo Vet Tech

3. The Moors

Jocelyn De La Riva

Mentor: Misael Camarena - Mathematics

Major: Kinesiology

4. Equation of Time

Xach Ortega

Mentor: Misael Camarena - Mathematics

Major: Undecided

5. Engineered Foods

Carlos Fonseca, Andrew Sanchez

Mentor: Misael Camarena - Mathematics

Major: Food & Nutrition



6. Standard of Living Under Different Political Regimes

Aldo Maciel

Mentor: Masahiro Omae - Political Science

Major: Political Science

7. History of Algebra

Jonathan Araiza, Paola Flores

Mentor: Misael Camarena - Mathematics

Major: Business

8. How Medical information gets sent out to the public?

Brenda Valencia, Sumaya Gado

Mentor: Misael Camarena - Mathematics

Major: English

9. Capitalist Vs Socialist Welfare organizations

Fernando Harris Jr

Mentor: Masahiro Omae - Political Science

Major: Political Science

10. Math's role in NASA & first rocket

Zanelle Valdez, Susan Montero

Mentor: Misael Camarena - Mathematics

Major: Criminal Justice

11. Greeks in mathematics

Teresa Antunez

Mentor: Misael Camarena - Mathematics

Major: Administration of justice

12. Life of Issac Newton

Estrella Valenzuela

Mentor: Misael Camarena - Mathematics

Major: Nursing

13. Profits of a Musician

Clarissa Correa

Mentor: Misael Camarena - Mathematics

Major: English

14. The Mathematics of War Alexis Estrada <i>Mentor: Misael Camarena - Mathematics</i>	Major: Undeclared
15. The math behind a photo Daniel Lunsford, Sharif Mustafa <i>Mentor: Misael Camarena - Mathematics</i>	Major: Business Analysis
16. UMOJA Math Romelia Turner, Kelly Giang <i>Mentor: Rob Rubalcaba - Mathematics</i>	Major: Psychology
17. Budget spending Vanessa Alaniz <i>Mentor: Misael Camarena - Mathematics</i>	Major: Political Science
18. John Nash David Cueva <i>Mentor: Misael Camarena - Mathematics</i>	Major: Psychology
19. Symbols James Reyes, Arturo De La Cruz <i>Mentor: Misael Camarena - Mathematics</i>	Major: Political Science
20. The Pythagorean Theorem Richelle Nunga <i>Mentor: Misael Camarena - Mathematics</i>	Major: Chemistry
21. The Unfair Outcomes of the Criminal Justice System Aldo Maciel <i>Mentor: Nicholas Boushee- Political Science</i>	Major: Political Science
22. The Mathematics Behind Roller Coasters Jennifer Bonifacio, Giessell Perez, Jennifer Talavera <i>Mentor: Misael Camarena - Mathematics</i>	Major: Business
23. What you need to know about Accounting Evelin Matus, Alexa Robles, Sarahi Miranda <i>Mentor: Misael Camarena - Mathematics</i>	Major: Small Business Accounting
24. Chicano power Kasandra Valladolid <i>Mentor: Rodriguez-Martinez - Political Science</i>	Major: Political Science
25. The First Television Stephanie Garcia, Lesley Rodriguez <i>Mentor: Misael Camarena - Mathematics</i>	Major: Business
26. System of equality Yveto Meus <i>Mentor: Masahiro Omae - Political Science</i>	Major: Public Policy
27. Mathematical Psychology Viviana Mcgann, Maria Martinez, Yesenia Lucio <i>Mentor: Misael Camarena - Mathematics</i>	Major: Undecided
28. Watch them Go!!! John Fields <i>Mentor: Misael Camarena - Mathematics</i>	Major: Biology/ Philosophy

29. Ada Lovelace: First Computer Programmer
Monica Pereira, Renee Guerrero Deleon,
Ricardo Alcantar
Mentor: Misael Camarena - Mathematics

Major: Business Management

30. Gun Control
Luis Martinez, Arturo Benitez
Mentor: Misael Camarena - Mathematics

Major: Computer Engineering

31. National Parks & Monuments in Politics
Isabel Bonifacio
Mentor: Nicholas Boushee- Political Science

Major: Biology

32. Children's Understanding of Math
Annette Lira
Brittany Gremard
Mentor: Misael Camarena - Mathematics

Major: English
Major: Child Development

33. Public Welfare
Leslie Mora Ponce
Kati Rueda Mora
Mentor: Misael Camarena – Mathematics

Major: Civil Engineer
Major: Social Worker

34. Life of Archimides
Leslie Jovani Juarez: Ashley Lugo
Mentor: Misael Camarena – Mathematics

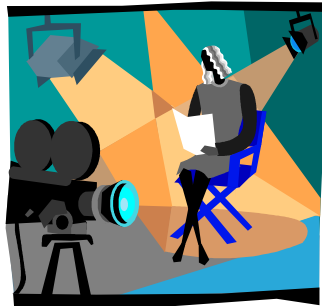
Major: Undecided



COMMUNICATION SHOWCASE

2018 Student Project and Research Symposium

~ Thursday, April 19 ~ 9:35am-11:00am ~ AH208 ~



VIDEO PRESENTATIONS:

Shawn Jones-Biology Department Promo (RTVF 125)

Cesar Toscano-Birch Aquarium Commercial (RTVF 124)

Crystal Cornejo-HUBU Promo (RTVF 124)

Omar Soto-Montage Music Video (RTVF 124)

Isaac Kalimo-Music Video (RTVF 124)

Mentor: Bob Sly

SHORT DOCUMENTARY:

Karla Loperena-Sometimes It Wakes You Up (RTVF 112)

Mentor: Cy Kuckenbaker

NEWS PACKAGES:

Claudia Robles-Mariachi Man (RTVF 146)

Dispensaries in San **Guilherme Oliveira**-Pot Diego (RTVF 146)

Yakira DelGadillo/Fernando Ramirez-City J-Walkers (R146)

Mentor: Laura Castaneda

SPEECH PRESENTATIONS:

Taison Quinonez-The Revolution on Hollywood (C 103)

Mentor: Maria Jose Zeledon Perez

Milan Finnie-Support Local Art (COMS 160)

Mentor: Erin Engstrom

Patrick Trujillo-San Diego Food Bank (COMS 160)

Mentor: Erin Engstrom

Joseph Aguilar-Seeds at City (COMS 160)

Mentor: Erin Engstrom

Michael-Bryan Kelly-College is a Joke (COMS 160)

Mentor: Erin Engstrom



NEWSCENE:

Celia Jimenez-City Knights Basketball (RTVF 145)

Gabriel Salazar-Gun Violence March (RTVF 145)

Mentors: Laura Castaneda and Chris Acedo

SHORT FICTION FILM:

Quynh Tran/Miguel Espinoza-Village Boi (RTVF 167)

Mentor: Cy Kuckenbaker

Oral PowerPoint Presentations

11:10 – 12:15 pm AH208

Simple Pendulum with Oscillating Harmonic Motion

Jose Puga Major: Mechanical Engineering
Mentor: Lorenza Levy - Science

Statesâ€™ Rights in the Age of Trump: the case of California

Wilson Saiki Junior Major: Political Science
Mentor: Nicholas Boushee -- Political Science

Immigration benefits America

Abraham Barragan Major: Political Science
Mentor: Nicholas Boushee -- Political Science

I Stand With Refugees

Arina Stadnyk Major: International Relations
Mentor: Masahiro Omae -- Political Science

Experiences of individuals with Swyer Syndrome

Olivia Petty Major: General Psychology
Mentor: Nicholas Boushee -- Political Science

“Questions & Answers” with Presenters (*time permitting*)



Spoken Word

11:30 AH/BT Quad





Our OUTREACH team!



Cosmetology

10 am AH/BT Quad



Mentor: Professor Sudabeth Phillips – Cosmetology

Bootcamp/Martial Arts Circuit

AH/BT Quad 9:10-10am

Warmup
Dynamic Stretching
Main Circuit
3 Stations
Upper Body Exercise
Lower Body Exercise
Kick Boxing MMA Drills
Cool Down

Mentor: Professor Alan Rivera - Health and Exercise Science



Invited Universities 10 a.m. – 1 p.m. @ AH/BT Quad

Alliant	Phoenix
Argosy	Point Loma
Azusa Pacific	Redlands
Brandman	San Diego Christian
Columbia College	United States University
DeVry	Webster
FIDM	Woodbury
Embry Riddle	Pacific College of Oriental
St. Katherine	Medicine
Embry Riddle	Newschool of Arc
John Paul the Great Univ.	SIU Carbondale
National	

We wish to again thank all of the contributors to this event. We salute you! This program may not include some late additions and performances - unconfirmed at press time. We encourage you to stroll the grounds and seek out these fine later additions - and welcome them aboard!



CITY COLLEGE □ MESA COLLEGE □ MIRAMAR COLLEGE □ CONTINUING EDUCATION



The Symposium Organizing Committee would like to acknowledge the essential contributions made by students, faculty, staff and administrators to ensure the quality and success of the Symposium. We are grateful for everyone's support and participation.

A special thank you to: Dr. Ricky Shabazz - President of City College; Minou Spradley – acting Vice President; Dean Trudy Gerald – co-sponsor of this event; City College MESA Program; the Academic Senate as co-sponsor of the Symposium; Associated Student Government; Transfer and Career Center; Digital Print Production; Jay Purnell and the Facilities Services Department; Sean Ryan, Eric Sandoval and the Multimedia Department; Outreach Office; Food Services Department; and Edgar Hopida from the Public Information Office.

We are also grateful for the support and guidance of the Institutional Assessment Committee in our collective efforts to both demonstrate and improve student learning.



SAN DIEGO CITY COLLEGE

sdcity.edu ~ Since 1914

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www.sdcity.edu
Ricky Shabazz, Ed.D.
President

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*BOARD OF TRUSTEES: Mary Graham, Rich Grosch, Bernie Rhinerson,
Maria Nieto Senour, Ph.D., Peter Zschiesche.
Constance M. Carroll, Ph.D., Chancellor*



Judge name: _____ Presenter name: _____

Presentation Rubric for Symposium Events

Team (or individual) presentations are evaluated on a variety of aspects of the presentation including content, style, graphics, and teamwork. As a judge, you must commit to observing the entire event. It is suggested that you take notes on those that interest you and use those notes to fill in the Rubric below. Just check the appropriate boxes; the organizing committee will total the points and announce our winners.

Presentation Component	Unacceptable 0 Points	Acceptable 1 Point	Good 2 Points	Excellent 3 Points
Overview: introduction of presenter(s), case or problem and background described, agenda described	no introduction or overview, background or agenda	introduction of presenter(s) but awkward, sketchy or unclear overview/agenda and background	confident and fluent introduction; clear overview/agenda and background, but could be more complete or polished	confident introduction of roles and contribution; clear purpose, overview, and agenda; relevant & clear background
Style: use effective verbal and nonverbal communication skills (e.g., voice volume, inflection, eye contact, etc.)	poor style (long pauses, reading speech, "Umm..." and other mannerisms, poor eye contact, monotone, etc.)	either fluent delivery but reading, or awkward delivery but spontaneous	generally good delivery and spontaneity but could improve	excellent style involving matching verbal and nonverbal style, good projection with inflection, spontaneous speaking
Vocabulary: appropriate and fluent use of terms and concepts	little or no attempt to include terms, concepts, authors	use of terms but not well related, sporadic, misused or mispronounced	good use of terms but still uses jargon or forces or is awkward with use of terms	fluent vocabulary and pronunciation without pretensions
Application: appropriate and insightful application of procedures and practices	little or no inclusion of techniques, application, or practices	inaccurate or incomplete use of techniques	generally good application, but lack polish, fluency, or originality	strong application with good fit, rationale, fluency, and originality
Coverage: thorough and balanced in treatment of topic	very incomplete, significant gaps, or biased treatment of topic	either thorough but biased, or incomplete and balanced	generally thorough and balanced but awkward, needs more evidence, or better sequencing	thorough coverage of topic per assignment with balanced treatment of perspectives
Rationale: explains reasoning and provides evidence	little or no reasoning, explanation, or evidence provided	reasoning and evidence presented but not well organized or poor sources	good logical reasoning and evidence, but not integrated	logical reasoning integrated with authoritative references on key points
Graphics: attractive & balanced layout, legible font	no graphics (may be appropriate in some cases)	graphics present but poor quality (illegible, inconsistent, etc.)	well done graphics but too much or too little, and not on key points	well-designed and attractive graphics that simplify or summarize key ideas; original graphics
Team Roles: team members have equivalent roles (this part is excluded in individual presentations)	unclear team roles	clear team roles but unequal contribution	clear roles, equal contribution	clear roles, balanced contribution, good transition between presenters, cross reference each other
Discussion: team (individual) is prepared to facilitate discussion and is receptive to feedback	little or no discussion	discussion but without clear organization or purpose	prepared discussion questions	prepared questions on key areas, and responsive to and elicit participant reaction and questions
Reflection: team (individual) can identify what they would do differently to improve	little or no reflection	ask for feedback; some defensiveness	ask for feedback and clarify responses; generally non-defensive	request feedback, clarify responses and link to performance changes; positive & curious

Total _____

Schedule for April 19th, 2018

Open House and Research Symposium

Poster Presentations @ AH Quad

> 9 a.m. – 1 p.m.

Oral Presentations @ Speech Lab (Room AH208)

> 9:35 – 11:00 a.m. • **Communication Showcase: Radio, Television and Speech**

> 11:00 a.m. – 12:35 p.m. • **Oral PowerPoints**

Performances @ AH Quad

> 9 a.m. **Jazz - Provided by KSDS - also offering studio tours!**

> 9:30 a.m. **Martial Arts**

> 10 a.m. **Cosmetology**

> 11:30 **Spoken Word**

> 12:15 p.m. **Hip Hop**

ELAC an ESOL Community Michelle Chan

Co-director, [World Cultures Program](#)

> 9 a.m. – 1 p.m.