A Celebration of Student Excellence

10th Annual Student Project and Research Symposium

Thursday, May 7
Welcome from the President

10th Annual
City College Student Project and Research Symposium
May 7, 2015

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 2013, more than 200 students representing more than 40 academic majors, showcase their best work through 70 poster presentations, numerous oral presentations, radio/TV excerpts, speeches, spoken work, performances, demonstrations, and Fine Art displays.

With projects titled “Music of the Plants”, “Kurt Godel's Proof of the Existence of God” and “Gender Differences in Helping Behavior”, our students are researching and reporting on the real-life social, economic and political issues facing our nation today. Collaborating together, the City College Symposium mends 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.

The best is yet to be!

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,

Dr. Anthony E. Beebe, President/CEO
San Diego City College
1313 Park Blvd.
San Diego, CA 92101
Telephone: 619-388-3453
Twitter: @DrAnthonyBeebe

2015 City College Student Project & Research Symposium
Poster Presentations
➢ 9 a.m. – 2 p.m. @ Gorton Quad

Oral Presentations
@ Student Conference Center (Room M205-6)
➢ 9:35 – 12:00 a.m. • Communication Showcase:
  Radio, Television and Speech
➢ 11:10 a.m. – 12:35 p.m. • Power Points

Performances @ Gorton Quad
➢ 10 a.m. Martial Arts
➢ 11 a.m. Cosmetology
➢ 12 a.m. Poetry

Fine Arts Demonstrations and Displays
➢ 9 a.m. – 2 p.m. @ Gorton Quad

University Representatives
➢ 10 a.m. – 1 p.m. @ Gorton Quad

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.
Dear City College Community and Guests:

It is with great pride that we welcome you to the 10th 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 Gorton 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’re so glad you’re here - enjoy the Symposium!

Symposium Organizing Committee:
Rafael Alvarez, MESA Program Director
Heidi Bunkowske, Public Information Officer
Misael Camarena, Professor of Mathematics
Dotti Cordell, Dir. of Student Health Services and Co-Chair Inst. Assessment Comm.
James Covalt, Professor of Chemistry
Erin Engstrom, Professor of Communication
Jaime Estrada, Professor of Spanish
Farrell Foreman, Professor of English
George Jessup, Professor of Mathematics
Herald Kane, Emeritus Professor of Chemistry
Deanna Shelton, Professor of Communication
Carol Withers, Professor and City College Librarian
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.

Agriculture  Paul Maschka  Health & Exercise Science  Jim Colbert
Anthropology  Arnie Schoenberg  Ruby Wilson
Biology  Erin Rempala  Guillermo Alvarez
Chicano Studies  Justin Akers-Chacon  Misa Camarena
Communications  Erin Engstrom  George Jessup
Health & Exercise Science
Tanya Medina  Larissa Dorman
Deanna Shelton  Leslie Easton
Cosmetology  Connie Calhoun  Psychology  Kevin Dooley
Patricia Jones  Penelope Mercer
Sylvia Leon  Luis Perez
Sudie Phillips  Cy Kuckenbaker
kim Shaefer  Bob Sly
English  Aileen Gum  Puente/Counseling  Luis Perez
Patricia McGhee  Radio/TV  Laura Castañeda
Nadia Mandilawi  SDICCA Intern  Cy Kuckenbaker
Fine Art  Terri Hughes-Oelrich  Counseling  Bob Sly
Wayne Hulgin  Counseling  SDICCA Intern
Cynthia Lyons-Dailard  Leslie Easton  Desi Sullivan

www.sdcity.edu/symposium • 3
1. **Do you still have a ring around your finger?**
   Gabriela Sanchez  
   Dhamar Herrera  
   Hector Torres  
   *Mentor: David Gauss - Sociology*

2. **Racism in America**
   Maria Jalihin Orozco  
   *Mentor: David Gauss - Sociology*

3. **Should seniors in high school be required to do community service to graduate?**
   Arturo Cadenas  
   *Mentor: David Gauss - Sociology*

4. **Drug Abuse and Battered Women**
   Oisis Jones  
   Angie Mendoza  
   *Mentor: David Gauss - Sociology*
5. **Post-head trauma injury and resistance factors**
   Guillermo Haro Miramontes  
   *Mentor: David Gauss - Sociology*
   
   **Major: Social Work**

6. **History of the Transistor: Past Present and Future**
   Cameron Olivera  
   John Murphy  
   Anthony Deleon  
   *Mentor: Misael Camarena - Mathematics*

   **Major: Electrical Engineering**

7. **Civil Engineering: Traffic Control**
   Ken Guinto  
   Larry Martinez  
   Steven Ciolino  
   *Mentor: Misael Camarena - Mathematics*

   **Major: Civil Engineering**

8. **African and african american history in america...who WRITES this stuff**
   Timothy Iyzohe Tatum  
   *Mentor: David Gauss - Sociology*

   **Major: Business Administration**

9. **Phlebotomist comparison data**
   Dana Godsey  
   *Mentor: George Jessup - Mathematics*

   **Major: Biology**

10. **Bringing Clay To Life with Ceramics**
    Maria Rivas  
    Priscilla Flores  
    *Mentor: George Jessup - Mathematics*

    **Major: Political Science**

11. **Women Inequality in Mathematics**
    Laura Coppel  
    Donny Luanglath  
    *Mentor: Misael Camarena - Mathematics*

    **Major: Animal Science**

12. **The Incan Mathematical System**
    Lealix Cortes  
    *Mentor: Misael Camarena - Mathematics*

    **Major: Nursing**

13. **Homophobia in Samoa**
    Melissa Tupuol  
    *Mentor: David Gauss - Sociology*

    **Major: Criminal Justice**

14. **Kurt Godel's Proof of the Existence of God**
    Bianca Gomez  
    *Mentor: Misael Camarena - Mathematics*

    **Major: Plant Sciences**

15. **The Life & Times of Benjamin Banneker**
    Martha Vences  
    Frida Garcia  
    *Mentor: Misael Camarena - Mathematics*

    **Major: Social Work**

16. **Euphemia Lofton Haynes**
    Hatungimana Didier  
    *Mentor: Misael Camarena - Mathematics*

    **Major: Theater Arts**
17. Albert Einstein, Alan Turing; theories and accomplishments
   Lawrence Walker  Major: Business and Communications
   Derrick Moore   Major: Radiology
   Mentor: Misael Camarena - Mathematics

18. 10 Major Food Crops Every Urban Gardener Should Grow
   J. Girard Mohr  Major: Agriculture/Biology
   Mentor: Misael Camarena - Mathematics

19. Retainer Bacteria: What Lurks Within?
   Zydrick J. Manalansan  Major: Electronic Technology
   Mentor: Misael Camarena - Mathematics

20. Poems inspired by Gloria Anzaldua's poem "To Live in the Borderlands Means You..."
   Mentor: Misael Camarena - Mathematics

21. A Daedalus Endeavor
   Andrew Majchrowicz  Major: Aerospace Engineering
   William Alexander   Major: Mechanical Engineering
   Trinh Lang   Major: Applied Mathematics
   Mentor: Misael Camarena - Mathematics

22. Student Learning Outcomes: Does Class Size Matter?
   Teresita Guzman  Major: Mathematics
   Mentor: Misael Camarena - Mathematics

23. Bernoulli Clan
   Stephen Towles  Major: Mechanical Engineering
   Alex Zamorano   Major: Digital Design
   Mentor: Misael Camarena - Mathematics

24. Life and Times of John Nash Jr.
   Saraika Smith  Major: Alcohol & Drug Professional
   Mentor: Misael Camarena - Mathematics

25. The Egyptians
   Virginia Gonzalez  Major: Undecided
   J'kyla Faulkner   Major: Dentistry
   Mentor: Misael Camarena - Mathematics

26. The Greeks
   Cynthia Hernandez  Major: Accounting
   Mentor: Misael Camarena - Mathematics

27. Julia Robinson: A Woman In Mathematics
   Lesley Guarena  Major: Physiology & Neuroscience
   Mentor: Misael Camarena - Mathematics

28. Emmy Noether and Evelyn B. Granville
   Valeria Luna  Major: Nursing
   Mentor: Misael Camarena - Mathematics

29. Jesse E. Wilkins
   Zacari Waller  Major: Aerospace engineering
   Tony Givens   Major: Economics
   Mentor: Misael Camarena - Mathematics
30. **The Understanding of Mathematics**  
Edgar Gonzalez Major: Nutrition  
*Mentor*: Misael Camarena - Mathematics

31. **Music of the Plants**  
Gustavo A. Padilla Major: Computer Engineering  
Ostin Flores Major: Electrical Engineering  
*Mentor*: Misael Camarena - Mathematics

32. **Roman Empire**  
Marco A. Pacheco Jr. Major: Engineering  
*Mentor*: Misael Camarena - Mathematics

33. **The Two Escobars**  
Emma Murray Major: Child Development  
Josue Calzada Major: Business Administration  
*Mentor*: Misael Camarena - Mathematics

34. **Gender Differences in Helping Behavior**  
David Jaime Major: Political Science  
Wendy Huerta Major: Psychology  
Claudia Robles Major: Biochemistry  
*Mentor*: Penelope Mercer - Psychology

35. **Influential criteria for people that already smoke**  
Moises Garcia Perez Major: Psychology  
*Mentor*: Penelope Mercer - Psychology

36. **Do Does Attending a Presentation by a Drag Queen and Trans Woman Affect Emotional Response and/or Knowledge of Drag and Trans Cultures?**  
Issanna Loughman Major: Psychology and ASL  
*Mentor*: Misael Camarena - Mathematics

37. **Extraordinary Women in Science and Engineering**  
Daniela Cordova Major: Psychology  
*Mentor*: Misael Camarena - Mathematics

38. **Moral Comparison of Females and Males Research Project**  
Sheila Cardoza Major: Psychology  
*Mentor*: Penelope Mercer - Psychology

39. **The effect of a comprehensive cardiac rehabilitation program on post coronary procedure patients**  
Robert Black Major: Psychology  
*Mentor*: Penelope Mercer - Psychology

40. **Correlation between students working 20 hours and GPA**  
Sandy Mercado Major: Psychology  
*Mentor*: Penelope Mercer - Psychology

41. **The Language of Java**  
Linette Jaimes Major: Computer Science  
Alex Casalme Major: Computer Science  
Makoto Ikeda Major: Computer Science  
*Mentor*:
42. Students’ methods to select professors
   Ivette Diaz
   Mentor: Penelope Mercer - Psychology
   Major: Psychology

43. E-Cigarettes: Useful or Harmful?
   Michelle Renteria
   Mentor: David Gauss - Sociology
   Major: Psychology

44. The Impact of Zero
   Robert Jones
   Mentor: Misael Camarena - Mathematics
   Major: Electronics

45. Acceptance of the in Samoa the Third Gender vs Homosexuality
   Davina Niumata
   Mentor: David Gauss - Sociology
   Major: Graphic Design

46. Neuroanalysis in Biomechanics
   Stephanie Soto
   Daniel Morales
   Mentor: Misael Camarena - Mathematics
   Major: Psychology
   Major: Bioengineering

47. Bernhard Riemann and his Contributions to the Mathematics
   Victor Angulo
   Mentor: George Jessup - Mathematics
   Major: Mathematics

48. Development of Antibiotics & The Fight Against The "Super Bug"
   Juan Penaloz
   Alejandra Contreras
   Mentor: Misael Camarena - Mathematics
   Major: Biochemistry
   Major: Biochemistry
49. **Pythagoras**  
   Lena Evans  
   Eduardo Lopez  
   *Mentor: Misael Camarena - Mathematics*
   
   Major: Criminal Justice  
   Major: Hospitality & Tourism

50. **Solar flares**  
   Joshua Avina  
   *Mentor: Misael Camarena - Mathematics*
   
   Major: Astrophysics

51. **U.S. and Israeli Relations**  
   Sarah Salazar  
   *Mentor: Kevin Dooley - Psychology*
   
   Major: English

52. **How Am I Helpful?**  
   Michelle Hernandez  
   Victor Robinson  
   *Mentor: Misael Camarena - Mathematics*
   
   Major: Computer Engineering  
   Major: Fine Arts

53. **Fueled by the Fuel**  
   Casenae Owens  
   *Mentor: George Jessup - Mathematics*
   
   Major: English
2015 Student Project and Research Symposium

~ Thursday, May 7 ~ 9:35am-11:00am ~ M205/206 ~

Mentors:
Communication Studies-Erin Engstrom, Deanna Shelton, and Tanya Medina
Radio/Television/Film-Laura Castaneda, Chris Acedo, and Cy Kuckenbaker

Film:
“Bleed the Voltage” by Vito Aguilar (RTVF 112: Documentary Production)

Film:
“Schindler’s List Reconstruction” by Zeferino Rincon (RTVF 167: Motion Picture Production)

Newscene:
“Cancer Special: Living with Pink” by Natay Holmes and Josh Lipton (RTVF 145 TV News Production)

Border Reporting:
“Baja Surfing” by Karla Hernandez (RTVF 144: Reporting in the Borderlands)

Border Reporting:
“Tijuana Market” by Sam Sandahl (RTVF 144: Reporting in the Borderlands)
Speech Presentation: “Maintaining U.S. and Israeli Relations” by Sarah Salazar (COMS180: Intercultural Communication/COMS 103: Oral Communication)

Speech Presentation: “Every American and the ACLU” by Robert Colleran (COMS 160: Argumentation)

Speech Presentation: “My Bag” by Kelly Wurtenberg (COMS 103: Oral Communication)

Group Presentation: “Techniques in Voice and Articulation” by various students (COMS 101: Voice and Articulation)

Symbolic Interaction Among Differing Communities in San Diego
John Kelly  Major: Nursing
Mentor: David Gauss - Sociology

The Curies
Itzel Vega  Major: English
Mentor: David Gauss - Sociology

Your Planet Is At War
Richard Powell  Major: Sociology
Mentor: Sarah Pitcher- Psychology

Parental Involvement in Education
Jonathan Macias  Major: Sociology
Mentor: Sarah Pitcher- Psychology

Do Video Games Affect College Performance
Robert Bryan Arevalo Major: Psychology
Mentor: Penelope Mercer- Psychology

“Questions & Answers” with Presenters (time permitting)
11:10 a.m. – 12: 35 p.m. @ Student Conference Center (Room M205-6)
Facilitator: Professor Patricia McGhee – English

Judges: Heidi Bunkowske – Public Information Office, Virginia Escalante – English and Blanca Hedayat – Digital Print Production

A Glimpse at Immigration
Miguel Jaimes Major: Sociology
Rage Shane Major: Sociology
Abdul Salim Major: Sociology
Mentor: David Gauss - Sociology

Higher Education Bill of Rights
Miguel Meza Junior Major: Business Administration
Alma Nava Major: Business Administration
Mentor: Justin Akers-Chacon - Chicano Studies

Indigenous People's Contemporary Struggles for Earth Rights
Jessica Magpie Macres Major: Political Science
Masters in Political Science with an Emphasis on Native American Studies
Mentor: Larissa Dorman - Political Science

Chron's and Colitis Awareness
Cesar Ortiz Major: Hotel and Restaurant Management
Arnold Barajas Major: Philosophy
Mentor: David Gauss - Sociology

Borderline Personality Disorder Recovery
Ana Villanueva Major: Psychology
Mentor: Penelope Mercer - Psychology

San Diego's Low-Income Community
Joceline Preciado Major: Social Work
Mentor: David Gauss - Sociology

Oxytocin and Sexual Couples
Charles Moreno Major: Psychology
Mentor: Penelope Mercer - Psychology
Prime Number 19 & Hidden Mathematical Structure of the Quran
Khatera Farouk Major: Nursing
*Mentor: David Gauss - Sociology*

Linear Algebra in Circuit Network Analysis
Andrew Camacho Major: Civil Engineering
Ian White Major: Structural Engineering
*Mentor: Guillermo Alvarez - Mathematics*

Sickle Cell and Malaria (P.S. They Don't Discriminate)
Cheniqua Dumolt Major: Anthropology
*Mentor: Arnie Schoenberg - Anthropology*

Chimpanzee Agression
Brandi Parker Major: Communications
Nelly Agundez Major: Psychology
*Mentor: Arnie Schoenberg - Anthropology*

“Questions & Answers” with Presenters *time permitting*
## Presentation Rubric

Team (or individual) presentations are evaluated on a variety of aspects of the presentation including content, style, graphics, and teamwork.

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

**Fine Arts: Crafts, Sculpture, Clay and Glaze Technology**

**Advanced Ceramics Demonstration and Display**
- **Wheel Throwing** (ARTF 195B)
- **Handbuilding** (ARTF 197A and ARTF 197B)
- **Ceramics Exhibit** (ARTF 195B and ARTF 195C)

*Mentor*: Professor Terri Hughes-Oelrich – Fine Art

**Fine Arts: Drawing II (155B)**

Victor Alvarado, Robert Healy, Alan Dominguez, Valerie-Moe Yazon, Jordan Myers, Rosemary Cordova, Caitlyn Douglas, Jorge Contreras and Sachiko Sterns

*Mentor*: Professor Cynthia Lyons-Dailard – Fine Art

**Fine Arts: Freehand Drawing II, Life Drawing and Painting**

**Freehand Drawing II (155B)**
Kevin Cabardo, Sebastian Hueso, Vanessa Perez, Marcus Deridder and Zach Young

**Life Drawing I (210A)**
Rosemary Cordova, Christina Lorenzo, Oscar Rios and Jane Weibel

**Life Drawing II (210B)**
Catherine Burkhart, Victoria Herzberger, Khanongsinh Inthavong, Adam Schmitter and Bryan Sanchez

**Painting I (165A)**
Anna Jandt Auvil, Victor Alvarado, Heather Cairone, Steven Hilferty, Andrea Mendoza, Melissa Coria, George Aburto, Adrian Carrillo, Tara Groth and Alejandro Ruiz

**Painting II (165B)**
Astrailia Dunford, Laura Gordh, Alan Potterton, David Rosas Mendoza and Jill Tessler
Presenters:
Bupphah Kun - Fantasy Makeup presentation/demo
Liz Garcia - Fantasy Makeup model
Aira Prades - Hair and Makeup presentation/demo
Jackie Buan - Presentation on Cosmetology Department
Lauren Brown - Hairdo presentation
Juan Moreno - Hair and Makeup presentation
Rosa Ahumada - Mannequin Head Art presentation
Jami Erwin - Hair, Makeup, and Costume presentation
Veda Schmigel - Hair model
Tanya Epshtein - Hair and Makeup presentation
Lyndsay Castro - Cosmetology organization/liaison
Mady Bright - Hair and Makeup model

*Mentor:* Professor Sudabeth Phillips – Cosmetology
10 a.m. **Martial Arts**
- Individual Conditioning (PHYE 132)
- Self-Defense (PHYE 232)
- Kickboxing (PHYE 233)

*Mentor:* Professor Alan Rivera - Health and Exercise Science

10:30 a.m. **Zumba & Hip-Hop Dance**

*Mentor:* Professor Ruby Wilson - Health and Exercise Science

11:30 a.m. **History of Hair & Makeup**

*Showcase Coordinators:* Stacy Blum & Sandra Feraldi

*Mentors:* **Cosmetology** – Professors Connie Calhoun, Patricia Jones, Sylvia Leon, Sudie Phillips and Kim Shaefer
10 a.m. - 1 p.m. @ Gorton Quad

Invited Universities

Alliant        Phoenix
Argosy         Point Loma
Azusa Pacific  Redlands
Brandman       San Diego Christian
Columbia College United States University
DeVry          Webster
FIDM           Woodbury
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!
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. Anthony Beebe - President of City College; City College MESA Program; the Academic Senate as co-sponsor of the Symposium; Associated Student Government; Transfer and Career Center; Digital Print Production; Derrall Chandler and the Facilities Services Department; Sean Ryan, Eric Sandoval and the Multimedia Department; Outreach Office; Food Services Department; and Heidi Bunkowske 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.

Acknowledgements
10th Annual Student Project and Research Symposium

Gorton Quad @ San Diego City College
Thursday, May 7, 2015

CAFETERIA

Oral Presentations:
Communications Showcase & PowerPoints
(9:15 a.m. – 1:00 p.m.)

Poster Presentations
(9 a.m. – 2 p.m.)

Fine Arts Demonstrations & Displays
(9 a.m. – 2 p.m.)

University Reps
(10 a.m. – 1 p.m.)

Performances
(9:30 a.m. – 2 p.m.)

Spoken Word
(12:30 – 1:30 p.m.)

Info Table and Symposium Check-In