Quarter in Review

Michael Wang, 2013-2014 JGS President

An eventful quarter has come to a close, and we are excited to share with you some of the highlights from the outset of this academic year. This newsletter edition features some of the work done by research fellow students, as well as a few of our organizational enterprises from this past quarter. Following its growth in recent years, JGS has continued to work hard towards fulfilling its mission in providing UCSF dental students opportunities to explore research, and to foster positive attitudes towards dental research.

We witnessed yet another quarter of successful enrollment in the IDS 186 dental research elective (Titled: Current Issues in Community Dentistry/Dental Research). Organized and hosted annually by JGS, this course has traditionally been a venue for students to explore research options and to identify potential mentors to work with. This year was no exception in that regard, with twenty faculty members dedicating time to speak to dental students about their respective areas of expertise. On another note, this quarter marked the second time JGS co-hosted the 4th Annual Ortho-(continued on page 2)

Student Excellence In Research

Joy Chang

Research and Clinical Excellence Day at UCSF School of Dentistry celebrated its 10th on October, 10, 2013, having consecutively run successful events since 2003. The entire dental school and dental clinics were closed for the momentous event. The day started with an opening by Dr. Michael McMaster, the chair of UCSF Dentistry’s Research and Clinical Excellence Day and an Adjunct Professor in the Department of Cell and Tissue Biology, who urged students to take action and bring change to the world, stating that “no matter what, the next 10 years [of progress] will start today”. Executive Vice Chancellor Dr. Jeffrey Bluestone continued this idea by stating the “future of UCSF depends on people in the room,” and UCSF has a responsibility to provide tools for this to occur.

Dean John Featherstone followed with his lecture “The Baby Has Grown Up” – an inspirational presentation following the research and development of CAMBRA, Caries Management by Risk Assessment – which, over the past 40 years, has become a philosophy that changes the way caries is managed around the world.

The morning session of oral presentations was chaired by Dr. Andrei Goga. Student oral (continued on page 3)
that through our four newly established committees, more dental students may find opportunities to be engaged and to experience dental research through alternative means. Via our Advocacy Committee, we hope to engage in local and national advocacy by fostering awareness for the importance of dental research and the negative impacts budget sequestration has had on scientific research, as well as to appeal to our policy makers towards lobbying for dental research funding. Our Communications Committee will focus on enhancing collaboration with other registered campus organizations, and elevating the visibility of dental student research activities at the university. The Journal Club Committee will serve to revive journal club sessions, led and participated by dental students. Through our Newsletter Committee, we hope to sustain the caliber and success of our quarterly student newsletter for years to come.

At this time, we are excited to have two of our very own student members and JGS past-presidents, Joshua Emrick (NSRG President) and Molly Hague (NSRG President-Elect), serving on the National Student Research Group (NSRG) Board. We are grateful for their national leadership and support to our Student Research Group chapter. Moreover, we would like to express special gratitude to our JGS faculty advisor, Dr. Peter Sargent, and Mr. Roger Mraz for their unwavering support and dedication to our organizational endeavors. Likewise, we would like to thank Dr. Lisa Chung for her hard work in chairing the UCSF Summer Research Fellowship Program this past summer, and directing the IDS 186 research elective this fall. The 2013-2014 JGS Board looks forward to two incredible quarters ahead, and to serving you throughout the rest of this school year.

Quarter in Review (continued from page 1)

Hello! Check out a quick snap shot of my background, interests, and leadership roles in research. Learn how you can get involved too!

Prior to dental school I spent two summers working at Stowers Institute for Medical Research in Kansas City, Missouri. I had no background in the lab aside from the lab core course requirements for my Biology degree. At first research was an intimidating world to plunge into - filled with a variety of chemicals, large microscopes, and piles of papers. But, immersing myself into the lab opened my eyes to an environment driven to improve patient care.

Without research our profession would remain stagnant and unaware of the potential prevention and treatments in oral health. You are probably saying “So what, Molly? I support research and leave it for the PhD students.” That is fantastic, but you don’t have to be a PhD student to pursue research. The opportunities to partake in basic science, translational, or clinical research are endless. Regardless of your year, first through third, it is never too late! All you need to do is start with small goals and let them blossom into major opportunities.

For instance, upon entering dental school I found a lab to spend my summer doing research at UCSF. This opportunity lead me to become involved in our local student research group, the John C. Greene Society (JGS). A year later I was appointed President of the JGS and soon after applied for the National Student Research Group (NSRG) President position. The American Association for Dental Research (AADR). NSRG is a student run organization aimed to guiding students interested in oral, craniofacial, and dental research. I currently hold the president-elect position and strive to reach out to dental students to not only become clinicians, but become clinician scientists.

If you are interested in joining JGS, NSRG, running for a leadership position in research, or finding a research project for you to contribute to during dental school do not hesitate to contact your current JGS or NSRG officers. I am always accepting emails (Molly.hague@ucsf.edu) to help students explore any and all avenues of research. Now go and do great things!

Message from NSRG President-elect

Molly Hague

D3 Molly Hague is president-elect of the National Student Research Group (NSRG), the former JGS President (2012-2013) and a former UCSF Summer Research Fellow.

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Student Excellence in Research (continued from page 1)

presentations covering a wide variety of topics focused on the cutting edge of dental research.

Janice Hwang, a second-year dental student and an AADR Student Research Fellowship Awardee, presented her work on “Hypoxia enhances phenotypic effects of sonic hedgehog heterozygosity”. Jean Calvo, another second-year dental student and a summer research fellow, followed with her research on “Effectiveness of an interactive patient education device in reducing children's dental anxiety”. Neek LaMantia, also a second-year dental student and a summer research fellow, presented “Optical imaging methods for guided laser ablation of dental caries”. The morning session concluded with presentation of the Outstanding Clinician Award to Dr. Sheila Brear, a Health Sciences Associate Clinical Professor and Division Chair for General Dentistry, who shared her most influential characters in dentistry.

Though only a select number of students had the opportunity to deliver an oral presentation for their research, many students had the opportunity to showcase their summer work in a poster presentation. The first Research and Clinical Excellence Day in 2003 only consisted of 20 posters, yet this event has grown to 48 posters. Students and other researchers were able to view the results of their peers’ hard work over lunch provided by UCSF.

The afternoon session of oral presentations was chaired by Dr. Nathan Young. Di Liu, an international dental program student, presented her work on “Mutacin genes in streptococcus mutans and caries status in children”. Kei Katsura, a DDS-PhD student, presented her work on “Wdr72 regulates enamel development during the maturation stage”. Samuel Clarot, a second-year dental student and a summer research fellow, presented his work on “Modulation of tooth formation through GPCR signaling”. The afternoon session concluded with a lecture by Dr. Diane Barber, the Professor and Chair of the Department of Cell and Tissue Biology, who shared her anniversary journey through teaching, research, and service in academia.

The eventful day concluded with the presentation of awards. The Mentor of the Year Award was presented by Timothy Wen on behalf of the John C. Greene Society to Dr. Brent Lin. The winners were announced by Dr. Peter Sargent, the Associate Dean of Research, who was “remarkably impressed at the professional presence” of the work of all of the students.

The winner of the Research Associate category was Jacob Simon. The winners of the Postdoctoral/Resident category were Dr. Alejandra Navarro for first place, Dr. Wendy Yang for second place, and Dr. Seungil Kim for third place. Winners in the Graduate category were Kei Katsura for first place, Sheila Nguyen for second place, and Frances Yang for third place. And finally, winners for the Predoctoral category were Jose-Julio Hernandez-Blouin for first place and the Ernest Newbrun Award for Research Excellence, Janice Hwang for second place, and Neek LaMantia and Evan You for third place.

Research and Clinical Excellence Day has continued to impress us year after year with the high caliber of research produced by the School of Dentistry students. We look forward to Research and Clinical Excellence Day 2014!
This past summer 13 first-year dental students were selected for UCSF School of Dentistry’s Research Fellowship, in which these students, with help from their mentors, developed and carried out research in various dental-related fields.

Top Row: Dr. Richard Jordan, Dean John Featherstone, Dr. Peter Loomer, Roger Mraz. Middle Row: Matthew Chang, Johnathan Nobles, Oscar Reyna-Blanco, Jean Calvo, Timothy Wen. Bottom Row: Ana Rodriguez, Sam Clarot, Roselyn Odsinada Oji, Janice Hwang, Dongkook Lim, Michael Wang, Neek LaMantia, Jose-Julio Hernandez-Blouin.

### Jean Calvo
**Mentor:** Dr. Brent Lin  
**Project:** Advances in Dental Technology: How the Use of an Interactive Digital Patient Education Device Affects Children’s Dental Anxiety

### Matthew Chang
**Mentor:** Dr. Elizabeth Mertz  
**Project:** Understanding successful long-term care dental practice

### Samuel Clarot
**Mentor:** Dr. Orapin Horst  
**Project:** Molecular genetic analyses of Isolated Oligodontia of Varying severity, Incomplete penetrance, and uniform Symmetry (IOVIS)

### Jose-Julio Hernandez-Blouin
**Mentor:** Dr. Stuart Gansky  
**Project:** Parental Attitudes, but not Knowledge Influence Sugar Consumption

### Janice Hwang
**Mentor:** Dr. Ralph Maruccio  
**Project:** Gene-Environment Interactions in Modifying Incidence and Severity of Holoprosencephaly

### Neek LaMantia
**Mentor:** Dr. Daniel Fried  
**Project:** High Contrast Imaging Methods for Selective Laser Ablation of Caries

### Dongkook Lim
**Mentor:** Dr. Wu Li  
**Project:** The Analyses and Characterizations of Amelogenin Precipitates by MMP20

### Johnny Nobles
**Mentor:** Dr. Sarah Knox  
**Project:** Using gene therapy to regulate neuronal development and regeneration in salivary glands

### Rosie Odsinada Oji
**Mentor:** Dr. Stefan Habelitz  
**Project:** Micropatterned porous membrane promote and stabilize odontoblastic phenotype

### Oscar Reyna-Blanco
**Mentor:** Dr. Maria Orellana  
**Project:** Prevalence of Malocclusion in San Francisco’s School Children: A pilot study

### Ana Rodriguez
**Mentor:** Dr. Judith Barker  
**Project:** Children’s diets and their caregivers’ beliefs about beverages relating to caries in a Mexican-American community

### Michael Wang
**Mentor:** Dr. Jeffrey Bush  
**Project:** A-Type Eph/ephrin Expression Patterns in Craniofacial Development

### Timothy Wen
**Mentor:** Dr. Andrew Jheon  
**Project:** Characterization of Insulin Gene Enhancer Protein ISL-1 in the Dental Epithelial Stem Cell System
**Interview with Dr. Lisa Chung**

Dr. Lisa Chung is the current Chair of the UCSF Summer Student Research Fellowship Program and an Assistant Clinical Professor in the Department of Preventative and Restorative Dental Sciences. She is also a researcher at the Center to Address Disparities in Oral Health (CAN DO).

**Could you tell us about yourself?**

I am originally from Seattle and I did my undergrad at University of Washington. I received my DDS at UCSF, after which I worked in private practice for several years. Later I carried out my MPH at Berkeley and completed my residency in Dental Public Health at UCSF. I returned to UCSF as an Associate Clinical Professor and have been on faculty here for 6 years and teach various courses in the D1 and D2 curriculum including Community Dentistry, Scientific Methods, Tobacco Cessation, Patient Centered Care in the clinic.

**What is your typical day at work like?**

Every day is different which is the way I like it! Most of my time is spent in my office at Laurel Heights working on my research projects. A few times a week you’ll find me at Parnassus teaching either in a lecture hall or in clinic. Lately, I’m involved with a project to conduct the first SF citywide children’s oral health strategic plan which means regular weekly meetings.

**How did you end up teaching and discovering your passion in public health work?**

Though I’ve always been drawn to community service, I did not plan to go into dental public health. It was only after I experienced private practice dentistry that I realized I wanted to explore what else I could do with a dental degree for the larger community. So I worked part time in private practice, and volunteered at the no-cost dental clinics at Carecen in the Mission and the Berkeley Free Clinic a few times a month. Pretty quickly, I decided that I’d like to not only expand where I could practice clinical dentistry, but also expand the practice of dentistry in other ways besides clinically. That led me to specializing in Dental Public Health.

It was during my MPH at Berkeley that I was turned onto the many other ways that I could impact oral health such as research, policy, and advocacy. My DPH residency offered hands-on experience in how to develop and conduct a research project. I was exposed to the rich and thriving oral health disparities research being conducted at UCSF’s CAN DO. Along the way I was given the opportunity to get involved in various teaching roles such as Community Dentistry. And most importantly, I was fortunate to meet incredible and generous mentors that provided guidance in research writing/methods, teaching, and working in collaborations and with the community.

**What do you forsee in the trajectory of dental research, both within your field and in the greater scope of dentistry?**

Within disparities research I project that we will see a greater amount of inter-disciplinary and community engaged projects. Also we will see increasing research looking at oral health care quality which up until now has been limited by the absence of standard measures for quality of care due to the lack of strong evidence for much of the dental treatments and interventions for patients.

Within the greater field of dentistry we will see an increasing amount of research in the use of lasers for diagnostic and imaging techniques, and selective caries ablation. Additionally, with the advances in microbiology and diagnostics, increasing research will look at improving the detection of oral diseases through salivary analysis. Lastly, as with the field of medicine, research regarding stem cells shows promise for the potential to regenerate dental tissues.

Through your new leadership roles as the Chair of the Summer Research Fellowship, as well as the IDS186 Course Director, what do you hope to bring to the UCSF pre-doctoral research experience?

I’d like to enhance the predoctoral research experience by helping facilitate student involvement and interest in the rich and diverse research environment we have here in the School of Dentistry. There’s a lot of exciting research happening and it’s important to expose students to it so they can see how our field continues to change and how these research findings could be applied to clinical practice someday. It is important to cultivate the interests of any potential students considering a career that involves research so that we can further our scientific discoveries that will improve the way we provide care, education, and ultimately improve the oral health of individuals and communities. And it’s a great way for me personally to learn more about these different research areas that I’m less familiar with.

Some say dentists have a sweet tooth. What is your favorite type of sweet?

There’s too many!!! I could easily eat dessert for dinner every night. Whatever it is, it has to be both sweet and fatty - If I had to choose I’d say ice cream.

**Explorations | Issue 1 | Volume 9**
Student Research Highlights

Over the Summer 2013 months, through the UCSF School of Dentistry Summer Research Fellowship D2's Neek LaMantia, Jean Calvo and Johnathan Nobles we granted the opportunity to explore the fields of optics, clinical pediatrics and cell biology, respectively. Below are their reflections on their research experience.

Neek LaMantia

Dr. Fred Margolis, a pediatric dentist, was the first to teach me about dental lasers and how they are operated; he was also the first to challenge me in discovering how we can improve the system. Being one of my mentors, Dr. Margolis and his incomparable guidance over the past six years have attributed significantly to my success. Dr. Margolis uses the dental laser for a wide range of treatments at his dental office in Chicago and while shadowing him, I took special interest in the laser system because it can first anesthetize the tooth, then by adjusting the settings, remove the decay. Therefore, often times no shots of anesthesia are required, which is especially an advantage for pediatric patients. Despite the remarkable capacity that dental lasers currently possess, I noticed some obstacles. I began thinking "How can I make this system more efficient for the provider? What can I do to improve the accuracy of the procedure?" Subjecting a method to such questions is the basis for my interest in pursuing research.

Being involved in research allows me to explore questions that have yet to be answered. As a UCSF research fellow I was able to step away from being a student and instead be a scientist, an investigator, and a discoverer. I can be completely original, and lead myself to uncover new ground I initially had no intent on analyzing. Taking part in research grants me the opportunity to test the boundaries of a topic, as well as evaluate my own personal limitations.

The dedication towards positive progression of dental healthcare is exemplified thru exploration and cultivation, two things which I plan to pursue as part of my career anticipations. Being at the forefront of dentistry means understanding how the techniques and technology we use are born. Everything we do as dentists in today’s mode of practice must be supported by statistical evidence thru a tremendous amount of counts and checks before it is applied clinically. How does an idea that changes the way we practice dentistry develop from a fleeting thought to a conventional method?

That is when I met my project mentor, Dr. Daniel Fried; he introduced me to the idea of pairing imaging systems with dental lasers, for more accurate ablation that the human eye may not detect. Despite my lack of experience in the research field, he helped me create my own project. Under the direction of Dr. Fried and his team, I completed my research project entitled, High contrast optical imaging methods for image guided laser ablation of dental carious lesions. I had a lovely time presenting at UCSF Research Day, and was honored to place 3rd in the undergraduate research studies category. I could not have achieved such marks if it was not for both Dr. Margolis and Dr. Fried’s tremendous assistance.

Jean Calvo

When I first came to dental school I never pictured myself as a researcher or summer fellow; however, when the perfect project presented itself, I couldn’t resist applying for the Summer Research Fellowship and I am very glad that I did. In my summer research project I get to use new technology, work with patients and help others feel better about going to the dentist.

In our study “Advances in Dental Technology: How the Use of an Interactive Digital Patient Education Device Affects Children’s Dental Anxiety” I work with Dr. Brent Lin, pediatric dental patients and providers in the UCSF dental clinic. My project is studying the use of DITTO Dental (show to right), an interactive device which aims to reduce children’s dental fear by teaching them about their dental procedure in a fun and interactive. In clinic I meet with patients, parents and providers to use the DITTO and evaluate how DIT-
Since my first few months in college, I have always had strong passion for research. Research is a unique way in which a team can ask a question which paves the way for the discovery of novel ideas, stimulates interdisciplinary collaboration, and builds the very foundation upon which we know science itself. Everyday, science changes and I knew that I wanted to be a part of that change.

I began working with Dr. Sarah Knox, during my summer before starting dental school. I wanted to work with Dr. Knox because her work is at the forefront of science with investigating how stem cell factors are involved in organ development and regeneration. Working with Dr. Sarah Knox, our research project focused on using gene therapy to regulate neuronal development and regeneration in a salivary gland model.

Salivary gland dysfunction severely compromises the oral health and quality of life of human patients. Salivary gland dysfunction occurs after radiation therapy for head and neck cancer (50,000/yr), as a result of genetic syndromes affecting gland development or other diseases such as Sjogren’s syndrome. Reduction in salivary flow results in increased oral infections, mucositis, tooth demineralization, dental caries, and an overall dysfunction in the physiology and maintenance of upper gastrointestinal tract tissues.

Up until now very little has been known with respect to how to achieve organ regeneration after injury. Our goal is to elucidate the underlying molecular mechanisms driving these processes so that later, this science can be applied to patients in need. This research project has been both a fun and challenging experience; everyday brings new questions and I am very excited to learn more.

Johnathan Nobles

Research – to be completely honest, something I never thought I would have in my repertoire of experiences let alone something that I would be interested in. I went into undergrad thinking that the most important thing I could do for myself was focus on my courses and spend my spare time volunteering or doing some other “good for humanity” activities.

One summer, completely by chance, my roommate mentioned that her lab was looking for an intern and offered me a chance to interview. I went in with the lowly expectation of autoclaving and being the lab servant in exchange for course credits. To my surprise, I was instead mentored and encouraged to work on experiments after just a few weeks of training and shadowing. My PI strongly believed in educating his interns and humbled me in his generosity and knowledge.

During my time in the lab, my critical thinking skills in the sciences began to develop and I was finally making practical sense of what I learned during class lectures. I observed my lab supervisors and was always a little taken aback by the genius in their work. They took their didactic knowledge and poured their lives into manipulating that information to discover the mysteries of life.

From the moment I graduated from undergrad and left the lab, I knew that I would continue to seek research opportunities once I entered dental school. Research is what drives all health professions forward and by being a part of it, I am able to be at the forefront of the ever changing standards of health care and incorporate it into my own practice as a future dentist. Furthermore, I am at one of the highest regarded research institutions in the world and being able to work with some of the best and brightest is a golden once-in-a-lifetime kind of deal. It was never a question of whether I would participate in research or not, but when I would have the opportunity to. The summer dental research fellowship is the perfect chance to be involved in research again and I truly hope that I will be a participant in such a wonderful program.
Each academic year, the John C. Greene Society organizes a 1.0 unit dental research elective with the goal of exposing students to the plethora of ongoing dental research topics being conducted at this institution. The hope is to provide an opportunity for motivated students to identify potential mentors and research projects of interest. As in previous years, we invited faculty members that are at the forefront of their respective fields of study to come talk about their work in basic science, clinical science, and public health. We were fortunate to have been able to host twenty guest speakers this quarter. This year, under new course directorship by Dr. Lisa Chung, we bore witness to a strong showing of student enrollees in the course. Students were able to broaden their understanding for what dental research is about, and many were able to meet potential mentors to work with as a result. We would like to offer our sincerest gratitude to all of our faculty guests for dedicating time to impart some of their wisdom to dental students!

What did former students have to say about the course?

> “Research barriers between many disciplines within dentistry are diminishing as scientists try to address more complex questions. As future clinicians, it is imperative that we learn how to integrate ourselves into basic and translational research. JGS IDS186 introduces students to the diverse craniofacial research at UCSF and also provides an opportunity to ask questions and meet the scientists.”

– Christian Santa Maria, 2nd year DDS/PhD student

> “I really enjoyed the research elective because it exposes you to variety of research occurring on campus. UCSF is #1 in the nation for NIH funding and this elective provides a glimpse of what’s happening in the dental field. From molecular biology to public health, it’s amazing to see the variety of research going on and how passionate the investigators are. More importantly, you have the opportunity to establish valuable connections with the investigators. Overall, I really enjoyed it.”

– Ligia Padilla, Class of 2015

> “I knew dental research existed, but I wasn’t sure exactly what was being done in the field. This elective was awesome because not only did it showcase all of the amazing research that UCSF does, but it broke all preconceived notions I had about dental research. It doesn’t have to be all bench-top, growing teeth in test tubes - it can be analyzing the genetics of a craniofacial anomaly, exploring the factors contributing to dental public health limitations, or developing the technology dentists will use in the future. Super cool, super interesting, and a baller way to spend your lunch.”

– Valentina Zahran, Class of 2016

IDS 186 Elective

Jolie Goodman

Oral conditions affect more people worldwide than any other disease or disability, yet the distribution of poor oral health across countries, and within countries, is by no means equal or equitable. Multiple factors influence oral health, from the biological to socio-political, and finding sustainable health-promoting strategies demands the integration of oral health professionals into multidisciplinary, multi-sectoral initiatives.

These issues will be explored this winter in a new 1-unit elective, hosted by the UCSF School of Dentistry - Dental Public Health 177: Global Oral Health Seminar. The Program in Global Oral Health is happy to announce this new elective that will build on the success of the 2013 elective course, Opportunities in Global Oral Health, while providing greater depth on various global oral health topics.

DPH 177 will emphasize introductory global health principles and global oral health research at UCSF. The course will feature lecture-style presentations from UCSF faculty, such as Caroline Shiboski and Maria Orella-na, and visiting professors, in addition to seminar-style discussions of current global oral health topics. In addition, learners will have the opportunity to appraise and critique relevant global oral health literature and actively participate in class discussion. The course instructors, John Greenspan, Benjamin Chaffee, and Jolie Goodman, hope to raise awareness of global oral health topics, solutions, and challenges surrounding the field, as well as to provide direction to students seeking greater involvement in global oral health initiatives at UCSF and beyond.

Classes will meet Wednesdays from 12:10 – 1pm in S-163. Open to all UCSF students/residents. No prerequisites

For more information, contact: benjamin.chaffee@ucsf.edu jolie.goodman@ucsf.edu

This quarter’s speakers included the following faculty members:

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<th>Speaker Name</th>
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<td>Bahark Amanzadeh, DDS</td>
<td>Noelle L’Etoile, PhD</td>
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<td>Judith Barker, PhD</td>
<td>Thuan Le, DDS, PhD</td>
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<td>Jeffrey Bush, PhD</td>
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<td>Sarah Knox, PhD</td>
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The John C. Greene Society (JGS) is the primary student-run dental research organization at the University of California San Francisco School of Dentistry. We represent the local chapter of the National Student Research Group (NSRG), a subset of the American Association of Dental Research. An independent registered campus organization (RCO), we receive support from, and send representation to, the Associated Dental Students (ADS) of the UCSF School of Dentistry. We also fall within the structural framework of NSRG, thus making our group a part of organized dentistry on a national level.

The John C. Greene Society was founded in 2002, taking its name from Dr. John C. Greene, Dean Emeritus at UCSF, whose leadership was instrumental in the dental school’s rise to prominence as a premier research institution, and who was much beloved by students and faculty alike. A major goal at the time was to encourage active student participation in meaningful research, bringing student research into harmony with the quality investigations being conducted by the UCSF dental faculty. That mission has carried on over the years, in accordance with the increasing interest in dental research within the UCSF student body. Throughout the year, JGS strives to present student research opportunities covering a wide spectrum of interests and spanning multiple levels of commitment, thus appealing to as broad a range of dental students as possible. We aim to inform the student body about ongoing research projects at UCSF and beyond, as well as to offer guidance on how to become involved in such endeavors. As a student research organization, we take on the responsibility of being adaptive to the needs and desires of changing student populations, while serving as a reminder to the tremendous impact quality science will have on the practice of dentistry in all parts of the world.

### JGS Board Members

- **President:** Michael Wang
- **Vice-president:** Timothy Wen
- **Secretary:** Joy Chang
- **Member at Large:** Chelsea Wong
- **Communications:** Dongkook Lim
- **Newsletter Editor-in-Chief:** Jose-Julio Hernandez-Blouin
- **Newsletter Editor:** Randy Rosales
- **D3 Representative:** Samantha Aguinaldo-Weterholm
- **D2 Representative:** Sam Clarot
- **D1 Representative:** Minera Loi

### JGS Committee Chairs

- **Advocacy Chair:** Chelsea Wong
- **Communications Chair:** Dongkook Lim
- **Journal Club Chair:** Yat Tang
- **Newsletter Chair:** Jose-Julio Hernandez-Blouin

### Acknowledgements:

The John C. Greene Society is grateful for the continual support from its faculty advisor, Dr. Peter Sargent and Roger Mraz. Additionally, we would like to thank the UCSF School of Dentistry Dean’s Office and the Office of Graduate and Research Affairs. All photos in this edition are courtesy of David Hand who continues to photo-document important events at the UCSF School of Dentistry.

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