

INSIDE

THIS ISSUE:

Letters from

Leadership

Recent

Conferences

Announcements/Updates

Summer

FALL 2019

EPADEL

MEETING

9тн

NOVEMBER

REU Programs

6

THE EPADEL SECTION **NEWSLETTER**

official newsletter of the EPaDel Section of the MAA • announcements • opportunities • events

Fall 2019 Issue

http://sections.maa.org/epadel/

An interview with doris Schattschneider

As a high school math student, Doris Schattschneider was intrigued by the stories that were left untold: that "there's a thing called calculus," and "these are problems you can't solve now but you'll be able to solve later." Her teacher would deliver these words, alluding towards the world of mathematics beyond the boundaries of their classroom. The drive to discover these stories for herself inspired Schattschneider towards a lifetime of work uncovering not only the stories of mathematics but also the stories of art and where these narratives beautifully intersect.

Growing up in a family of teachers, Schattschneider viewed teaching and education as a natural path for her life. When she was a high school student in Staten Island, she found joy in tutoring her friends for the Regents exams, discovering in these moments her "instinct" for teaching and her desire to help other people understand ideas. After serving as a faculty member at Moravian College for 34 years, Schattschneider described that the "aha" moment for her students--the moment when they finally "achieve understanding and appreciation"--is the source of her "greatest satisfaction."

Schattschneider graduated with a bachelor's degree in mathematics from the University of Rochester where she also studied studio art. (Continued on page 2.)

BY BRITTANY GELB '21



THEMATICAL ASSOCIATION OF AMERICA

Engaged Audiences at the Spring 2019 Meeting at King's College



SEE THE OFFICIAL **EPADEL WEBSITE** FOR ALL DETAILS

> ONSITE REGISTRATION IS AVAILABLE!

AN INTERVIEW WITH DORIS SCHATTSCHNEIDER (CONTINUED FROM PAGE I)

BY BRITTANY GELB '2 I

She went on to graduate studies at Yale University, earning a PhD in 1966 for her work in algebraic group theory. As one of four women in her class, Schattschneider described herself as "lucky and blessed" to not experience the discrimination faced by many other women of her generation.

As a founding member of the Association for Women in Mathematics (AWM), Schattschneider described the inception of this organization as the recognition by a group of women that they all had faced great obstacles in their careers. The AWM was a way for them to resist the "unconscious perpetuation of the status quo" which had characterized the mathematics community: that "men [and not women] are mathematicians" and "men [and not women] are editors." In 1981, Schattschneider herself became the first female editor of Mathematics Magazine.

When I asked her what the mathematics community is doing well and what we should work on, Schattschneider said that she is witnessing "real efforts towards diversity" in our community, and yet, we need to continue to reach out--and to find better ways to reach out--to those who are turned off by math, discouraged, or unprepared.

Schattschneider's interest in the mathematics of art and discrete geometry began when she developed a course on the mathematics of art at Moravian College. She noted that the problems in this field, such as tiling problems, are unique because they are sometimes easy to state, yet difficult to solve, and the techniques for solving them pull from many other research areas such as combinatorics and graph theory. Due to the nature of these problems, mathematical "amateurs" such as Marjorie Rice have been able to make contributions to the field in new and unique ways. Schattschneider was motivated to discover how others such as Rice were thinking, and then communicate their ideas in a way that the mathematical community would appreciate. The resulting 1978 article, Tiling the plane with congruent pentagons, was awarded the Carl B. Allendoerfer Award for excellence in expository writing. In 1990, she

A SPECIAL THANK YOU TO THE AUTHOR



A special thank you is extended to Brittany Gelb for happily volunteering to interview Doris. Brittany is a junior math major at Muhlenberg College. She participated in the Lafayette REU last summer and is applying for other REUs this summer. Good luck, Brittany, and thank you for your efforts!

published the book "Visions of Symmetry," which explored the underlying mathematics in the captivating geometric art of M.C. Escher.

Schattschneider became involved with EPaDel when she joined the faculty of Moravian College in 1968. She has served as Vice President, President, and Governor of the chapter. As a member of the program committee, she recalls in 1976 that EPaDel was "one of the first if not the first" sections to receive a lecture on the proof of the Four Color Problem when the "proof had just been announced." She has also done considerable service for the national committee throughout the 1980's and as the National Vice President from 1994 to 1995.

Through my conversation with Schattschneider I could see the constellation of her love for painting, photography, mystery novels, teaching, and mathematics. She has been drawn to the mystery of solving problems, uncovering stories, and sharing those stories with others. Her advice for those pursuing mathematics is to persevere: "Don't let people discourage you ... or tell you that math is irrelevant or too hard ... If you enjoy math and the pursuit of problem solving, go for it." She emphasized the collegiality of the mathematics community and the friendships that one can make throughout a career of collaboration. And finally, she called for the mathematicians of the present to continue to be storytellers, finding ways to communicate to the public the wonder and importance of our work.



During the spring 2019 meeting, the EPaDel chair Ximena Catepillan awarded Michael Levitan from Villanova and Doris Schattschneider for their 50 years of MAA membership. We send much congratulations and gratitude to both of these mathematicians!





Rosemary "Ro" Sullivan West Chester University EPaDel Representative to the MAA Congress

Greetings! It was great to see so many of you at MathFest in Cincinnati.

Congratulations to Sylvia Trimble Bozeman on receiving the inaugural Inclusivity Award at MathFest 2019. This award honors significant, sustained work to broaden access to mathematics. Visit <u>www.maa.org/awards</u> for more information on MAA awards, prizes, and a complete list of winners.

Did you know the initial student poster session at MathFest had 12 posters? This year there were more than 350! Kudos to all who have helped this endeavor flourish.

Didn't get to go to MathFest? The good news is you can still experience some of it, if you're a member. New to the MAA Video Library this fall is the 2019 MAA MathFest Speaker Videos. (Go to <u>www.maa.org/video-library</u> and type in your login details to access.)

At the meeting of the MAA Congress, the following two goals were voted on and approved.

Goal I: Programs:

To curate and develop our robust portfolio of programs that expand MAA's outward facing impact.

Not familiar with the Programs of the MAA? Visit <u>www.maa.org/programs-and-communities</u> to gain more details. For example, if you want to build Business, Industry and Government (BIG) career activities in your department or section, then check out the Tondeur BIG Career Initiatives program. One BIG activity that made its debut at MathFest is a mock interview card game with legal and illegal questions. There are so many programs, so please take a peek at them.

There are also 17 Special Interest Groups of the MAA (SIGMAAs) and over 85 committees, so if you want to get involved, avail yourself of this myriad of possibilities. Don't have lots of time? There are many opportunities for micro-volunteering (1–3 hour time commitments). For example, you could read a policy statement and give your feedback, nominate someone for an award, or invite a colleague to an EPaDel meeting.

It is important to remember that the MAA is made up of people and it is key for these members to communicate regularly. The Programs department has developed a new communication and repository tool called MAA Connect. This fall members of the Congress were on-boarded and soon this tool will be available to all MAA members.

<u>Goal 2: International Mathematics</u> <u>Olympiad (IMO)</u>

To celebrate the power of mathematics on an international scale through successfully hosting the 2021 IMO in Washington, DC, and leveraging the event to strengthen the reputation of the MAA.

The MAA is involved in sponsoring the IMO competition in addition to many other math competitions. Do you know how many countries participated in the IMO in 2019? 112 -WOW! This year the U.S. and China tied for first place. The U.S. also won the European Girls' Mathematical Olympiad. Hosting the IMO in 2021 is an important and amazing opportunity.

As your section representative one of my expectations is to communicate any concerns or ideas you have to the MAA. So please, don't hesitate to contact me. The MAA is always looking for better ways to serve you at both the national and sectional levels. I'm looking forward to seeing you at the fall section meeting at DeSales University on November 9.

Millersville University



It is with mixed feelings that I write this message since my two years as chair of EPaDel are coming to an end. I have truly enjoyed chairing EPaDel, and I recommend the section members to actively participate on the organization. It is fun, you meet a lot of people, make new friends, and most importantly, you do a big service to our students.

One of my favorite events, the Careers in Mathematics Conference, was successfully held at Kutztown University on October 5, 2019. I would like to thank the organizing committee members: Brian Kronenthal, Eric Landquist, and Tony Wong, who did a superb job at making the event possible. Furthermore, a big thanks to Sean Droms, who patiently – as always – took care of registrations, and, to Janine Janoski for doing a wonderful job at moderating the I6-member panel. The conference was run with a successful Section NExT Symposium that included a plenary talk and break-out sessions.

After the closing remarks, the conference culminated with a big number of randomly awarded Klein bottle



prizes, donated by DeSales University. I am proud to mention that Millersville University hit a record by bringing 49 students and 5 faculty to the conference. We even had to rent a bus!

One more thing, please visit the EPaDel website and read the proposed bylaws in preparation to casting your vote at the November 9, meeting at DeSales University. The link is <u>sections.maa.org/epadel/organization/bylaws-epadel-2019-proposed.pdf</u>.

I am looking forward to seeing you all at DeSales University in November.

Ximena Catepillán, Millersville University Chair EPaDel

THANK YOU FOR YOUR SERVICE

EPaDel is grateful to its leaders, especially those whose terms have recently ended or are about to end. We thank Ximena Catepillan, Ellen Panofsky, Bud Boman, and Linda McGuire for their commitment to our section!

Recent Leaders

From Left to Right:

Ellen Panofsky (Vice-Chair)

Bud Boman (Prior Representative to the MAA Congress)

Ximena Catepillan (Chair)

Doug Ensley (Secretary)

Linda McGuire (Treasurer)



Photo Credit: Dr. Lin Tan, West Chester University



Actuarial Science Career fair Co-hosted by Arcadia and West chester

On Friday, September 20, West Chester University and Arcadia University hosted the 3rd Joint Actuarial Science Career Fair. The two schools take turns hosting the event and this year it was held at Arcadia University. Close to 40 students between Arcadia and West Chester were given almost 90 interviews for internships and jobs in the Actuarial or other related fields. Participating as interviewers were many alumni from each program, including Kerry Frees (WCU) of Penn Mutual, Courtney McIlvaine (WCU) of TransAmerica, Michael Colon (WCU) and Mark Remner (WCU) of Willis Towers Watson, and Bill Buhring (Arcadia) of Lincoln Financial. Other companies participating included LTCG, Venerable, Independence Blue Cross, Aon, and CBIZ. If you have students that may like to participate in the future, let us know. E-mail me, Lisa (WCU) Marano. at Imarano@wcupa.edu or my coorganizer Irina Pogrebivskyi at pogrebivskyi@arcadia.edu





alling all high school girls! Get STEM-ready for college and for a future in science and engineering! The Penn State Brandywine Admissions staff and STEM faculty will discuss how best to prepare for a college major in a wide variety of STEM fields (some degree programs you have heard of, some you may not have known even exist!). Schools may bring up to 12 girls with two teachers/chaperones. More info can be found at the following link: brandywine.psu.edu/stem-options/ college-and-careers.

Penn State Brandywine offers additional programming for K-12 students and STEM teachers, including hands-on workshops and a science writing contest. More info is available at this website: brandywine.psu.edu/stem-optionsexplore-engage-and-discover.





WANT TO HOST AN EPADEL MEETING?

EPaDel is always looking for institutions who are willing to host one of our fall or spring meetings. If you believe your institution would be willing to host of if you would like more information on doing so, then please contact our chair at Ximena.Catepillan@millersville.edu. The next available timeslot would be during the 2020-2021 academic year.

THE 2020 STUDENT MATH PAPER CONTEST

If you are an undergraduate writing a mathematics paper this year, consider submitting it for a prize in our yearly Student Mathematical Papers Prize Competition. Both expository papers and original research papers are eligible.

The deadline is June 15. The 2020 winning author(s) will be recognized at the EPaDel Section's Fall 2020 Meeting and will receive a prize of \$200.

Details on how to submit your paper or on previous winners can be found at this link: <u>sections.maa.org/epadel/</u> <u>awards/studentpaper/</u>.

If you have any questions, please email Eric Kahn from Bloomsburg University at ekahn@bloomu.edu.

KUTZTOWN UNIVERSITY HOSTS THE CAREERS CONFERENCE



The Kutztown University Department of Mathematics hosted the biennial Careers in Mathematics Conference on Saturday, October 5, 2019. This conference featured 16 panelists from different professions in industry, who shared their personal experiences and career paths with college and high school students. There were over 150 participants at this conference, including professors, teachers, and students from colleges and high schools in Eastern Pennsylvania and Delaware.



Thank you to Tony Wong, Eric Landquist, and Brian Kronenthal, the local organizers of the Careers Conference at Kutztown!



Temple Students enjoying the Careers Conference



PROFESSORS PROPAGATING PUZZLES

At the October SECANT conference (see page 7), main speaker Dean Hoffman passed the following puzzle on to James Hammer from Cedar Crest College who shared it with us. Say you have a sequence A of length 10 labeled A_0 , A_1 , ..., A_9 . Now associate each term A_m with an integer k in [0, 9] so that if $A_m = k$, then there must be k occurrences of the number m in A. There is exactly one such sequence A! What is it? The answer is "hidden" on page 7.





in the fall of 2019, Cedar Crest College held the second annual Series on Exploring Combinatorics and Number Theory (SECANT) conference. There were 45 people in attendance sporadically throughout the two days of the conference. While the attendees were primarily from the Lehigh Valley, we had participants from Indiana, Connecticut, Delaware, Virginia, and Alabama. Visit https://tinyurl.com/ SECANT-Conference for updates on SECANT III coming this fall as well as for conference photos from the previous two years. Hope to see you there next year!











PSU HARRISBURG MATH CLUB: TALKS! TALKS! TALKS!

Math Club attended the campus involvement fair in August and attracted 40 new members. In our club meetings, we invite guest speakers to do math talks on different topics. Dr. Li has already given us an amazing math talk about 'Euler Characteristic" on Oct. 11. On Oct 24, Yinsen Zhang will present on "Constructive Logic" and thus will be our first student talk in this semester. Dr. Grosh will give us our third math talk on Nov 7. The talk will be on the topic of "Paradoxes in Logic and Set Theory." Members of the club will also attend a talk hosted by the department who has invited Dr. Robert Rogers of SUNY Fredonia on Nov. 8 who will talk on "Where Am I Ever Going to Use This Stuff?"

In December, we will also visit the National Museum of Mathematics in NYC. We hope the amazing exhibits and inspiring activities there can help us discover more about Math!

MILLERSVILLE MATH CLUB: WORKING HARD FOR EPADEL

his semester the Mathematics Department at Millersville University has restarted the Math Club. As one of our first events we helped organize a trip to the EPaDel Careers in Math Conference at Kutztown University. A total of 49 students and 5 faculty members attended from our university, including all the officers of Math Club. After the conference we were able to debrief all the information that the speakers shared with us.

speakers shared with us. Our club also invited a student who passed one actuarial exam speak on actuarial sciences and how to prepare for the exams.

We are looking forward to being able to help organize and run the EPaDel and PASSHEMA conference that will be held at Millersville in the Spring 2020. During the rest of the year we will be doing personal polynomials, celebrating Pie Day, and spreading the love of math!



Elisabeth Cunningham, Katherine Pheysey, Alana Danelski, Julia Geesaman, and Brianna Hileman.

NEW HIRES, PROMOTIONS, & A SIXTEEN-YEAR TERM AS CHAIR

The Department of Mathematics and Statistics at Villanova University has seen a lot of change over the past three years. We are pleased to welcome the following recently hired full-time members of the department: Peter Chi, Alexander Diaz-Lopez, Jiangtao Gou, Vikram Kamat, Kaitlyn Muller, Peter Muller, Bright Nsowaa, Danielle Smiley, Michael Tait, and Le Wang.

We congratulate both Amanda Knecht and Paul Bernhardt on recently being awarded tenure and promotion to Associate Professor. We would also like to honor the long -term contributions of several of our colleagues who have retired: Marilyn Belkin, Robert DeVos, Frederick (Fritz) Hartmann, Joyce Longman, Joseph Pigeon, and David Sprows.

Finally, the department is very grateful to Doug Norton, who led the department in the role of Chair for 16 years, and for Jesse Frey who has newly taken on that role.



DID YOU KNOW? There are about 95 schools in EPaDel.

A TALE OF TWO TITLES

Dickinson

Dr. Sarah Bryant of Dickinson College is an editor and author in the newly-release book A Celebration of the EDGE Program's Impact on the Mathematics Community and Beyond by Springer. Find the book at springer.com or amazon.com.

The Enhancing Diversity in Graduate Education (EDGE) Program began twenty years ago to provide support for women entering doctoral programs in the mathematical sciences. With a steadfast commitment to diversity among participants, faculty, and staff, EDGE initially alternated between Spelman College EPaDel's very own Bryn Mawr College. In later years, EDGE has been hosted on campuses around the nation and expanded to offer support for women throughout their graduate school and professional careers. The refereed papers in A Celebration of the EDGE Program's Impact on the Mathematics Community and Beyond range from short memoirs, to pedagogical studies, to current mathematics research. All papers are written by former EDGE participants, connected to EDGE. Together, these papers offer compelling testimony that EDGE has produced a diverse new generation of leaders in the mathematics community.

David Richeson, professor of mathematics at Dickinson College and editor of Math Horizons, published the book Tales of Impossibility: The 2000-Year Quest to Solve the Mathematical Problems of Antiquity (Princeton University Press, 2019). It tells the 2000-year story of the four compass-and-straightedge problems—the so-called "problems of antiquity"—squaring the circle, trisecting the angle, doubling the cube, and constructing regular polygons.

CHECK IT OUT!

connect.maa.org

A website hosted by the MAA to promote communication amongst the math community.



STUDENT ACTIVITY AT THE FALL 2019 EPADEL MEETING



Can we cut out the shape below (along the outside and along the red line) and then fold it into a cube using only the grid lines? Come try it!



Find out about this shape and more at the Student Activity Session at the EPaDel Fall Meeting! Be there or be SQUARE! No registration is necessary. Just show up on the day of the meeting!





In late March, undergraduate students Yelene Cisse, Yitbarek Demesie, Daniel Gomez, and Luke Waechter attended the Philadelphia Undergraduate Mathematics Conference, hosted by Temple University and co-organized by Temple University, Bryn Mawr College, and La Salle University. Yitbarek participated in the poster session at this event. Luke also attended the Phillies #CollegeSeries Baseball Analytics Night at Citizens Bank Park in April.

Undergraduates Brendan Funk, Shania Kiat, Laureen Okin, Tyler Knappenberger, and Ricky Whitmoyer participated in joint summer research with Mathematics and Computer Science faculty. In these projects supported by the School of Arts and Sciences, Brendan, Shania, and Laureen created and fine-tuned a game-playing bot to play reconnaissance blind chess, and Tyler and Ricky investigated reconfiguration graphs of two-player games and knapsack problem variations.

DOES THIS PICTURE LOOK FAMILIAR?



The above picture was included in last spring's newsletter. Bryn Mawr was hoping to set a world record and invited everyone to help them do so. In fact, they made their goal! Led by Professor of Mathematics Victor Donnay and mathematics majors in his Senior Conference Praxis course, students from Bryn Mawr College, Overbook High School, the Science Leadership Academy at Beeber, the ADELANTE program at the ACLAMO Family Center, and other community members built the world's largest K'NEX Sierpinski Triangle on Applebee Field on April 29, 2019. Read more about it <u>here</u>. Congrats!

The King's junior math major students presented their "Axiom Systems" in the 2019 Spring EPADEL meeting held at our home turf on March 23rd.

All math majors must take a proof writing course in their freshman year at King's, and each student is assigned to create an axiom system as their final project in the course. They design their own axioms, and examine their consistency and independency of the models. Further, they make several theorems based on their axiom systems. Their presentations were well-received, and they had excellent questions by audiences. For example, some students discussed how the axiom systems are useful in our daily lives during the Q&A sessions.

Left to Right: Nicholas Kubishin, Madison Miller, Courtney Rikoskie



Lebanon Valley College

Lebanon Valley College welcomed 68 new mathematical sciences students this fall. For the fifth year, our orientation event has been to have incoming students form teams and work together to build drinkingstraw structures to support a cup of water. The winning tower was nearly 30 inches tall!





UNIVERSITY

The Math Club at Kutztown University has held two meetings in Fall 2019. The first meeting was "MATLAB Treasure Hunt," and the second meeting was "It's Mathemagical," a talk on mathematical card tricks by Isaac Reiter, a sophomore at Kutztown University.



The Penn State Brandywine Math Club have took a Service Trip to Surrey Senior Center in Media, PA. Students performed mathematical magic tricks for the seniors. The seniors were thoroughly amazed and our students were great with them! We are planning another trip in November. Students also participated in Villanova University's DataFest last spring where teams of students from many area schools worked around the clock, competing to analyze a big data set. Furthermore, the club had a great time pie-ing their professor Dr. Samantha Pezzimenti for Pi Day! (See pictures below.)





Departmental Announcements



DeSales University

> LASALLE UNIVERSITY

Cedar Crest College welcomes Ann Clifton to our team. Ann was an adjunct with us last year and this year we were lucky enough to be able to offer her a full time position. She brings different approaches and different ideas to our teaching. One of her ideas is bringing mastery based grading to our calculus classes. We have been chatting about how to implement this in the near future. She is also an avid twitter user for pedagogical resources.

DeSales University welcomes two new professors of mathematics: Dr. Caitlin Owens (previously at Rowan University) and Dr. Carl Hammarsten (previously at Lafayette College). Welcome aboard, Caitlin and Carl!

Stephen Andrilli, Professor, has transitioned to half-time teaching. He presented on M.C. Escher's life and work at the Pi Mu Epsilon Induction at St. Joseph's University in May. He continues to serve as a referee for The Pentagon and he attended the Spring '19 EPaDel meeting at King's College.

Janet Fierson, Associate Professor, received a travel award from the NSF and the American Association for the Advancement of Science to attend the S-STEM Symposium in Washington, DC, in September. The conference's theme was "Creating Pathways to an Inclusive STEM Workforce," and sessions focused on effective STEM undergraduate education and workforce preparation strategies and the expansion of academic opportunities for talented STEM students with financial need. La Salle is currently implementing an NSF S-STEM grant for dual majors in mathematics and a related area.

UNIVERSITY

Lehigh University announces the arrival of two new faculty members: Megan Cream, with a PhD from Emory University in graph theory, previously at Spelman College and Cedar Crest College, and Zhaoxing Gao, with a PhD in statistics from the Hong Kong University of Science and Technology, previously at the London School of Economics and the University of Chicago. Welcome to both!



Several professors have received prestigious honors. Three-year NSF grants: Irina Mitrea ("Singular integral operators for higher-order Systems in non-smooth domains"), Matthew Stover ("Geometry, topology, and rank one lattices"), and David Futer ("Hyperbolic manifolds and their groups"). Additionally, Martin Lorenz was recently selected for a Von Neumann Visiting Professorship at TU Munich for summer 2020, Irina Mitrea received the 2019 Simons Fellowship, and Mihaela Ignatova received the 2019 AWM Sadosky Research Prize in Analysis.



Temple also gave multiple departmental awards for service and teaching. Awards for excellence in service were given to undergraduate Sujay Rajkumar and graduate students Khanh Le and Rebekah Palmer. Excellence in Teaching Awards were also given to James Rosado (graduate student), Edgar Bering (post doc), Rebeca Lufi (adjunct), and faculty Kelli Jones, Jeromy Sivek, and Georgia Triantafillou Congratulations to all!

Lebanon Valley College welcomed a new faculty member to its department this year. Dr. Wanying Fu completed her PhD in Financial Mathematics at University of Pittsburgh.





SUMMER 2019 REU PROGRAMS



To learn more visit: <u>www.moravian.edu/mathematics/reu</u>.



MORAVIAN COLLEGE

The Mathematics Program at Moravian College held the first Research Challenges of Computational and Experimental Mathematics REU Program during the summer of 2019. The 9 week program supported 19 participants which included several from Cedar Crest, Muhlenberg, and Moravian. Each participant was involved in at least two of the 9 different projects which included latin squares, pebbling, network reliability, sum index graphs, and the game of plates and olives. There were 6 mentors overseeing the projects and helping to guide the research. Each group gave a weekly presentation and participants attended local and regional conferences. There were field trips to DIMACS and GlaxoSmithKline as well as a weekly seminar series on computational and experimental mathematics. The program will run again in summer 2020.

Lafayette College hosted another great Summer REU in 2019. Cliff Reiter (Lafayette College) and a student worked on a project on cellular automata, Megan Cream (Lehigh University) led three students on a graph theory project, Ethan Berkove and Derek Smith (Lafayette College) led three students on a Fractal Geometry project, and Gary Gordon (Lafayette College) and Brittany Shelton (Albright College) led a group of four students in a project on Recreational Math. Congratulations to all involved!





Back: Charles Kulick, Scranton Adam Hodapp, Minnesota Alvaro Carbonero, Nevada Las-Vegas Maxwell Auerbach, Redlands Kathryn Beck, Dickinson Middle: Rebecca Whitman, Wellesley Brittany Gelb, Muhlenberg Beth Anne Castellano, Lafayette Lisa Cenek, Amherst Karie Schmitz, Truman State Front:

Feet of Iñaki Minondo, Lafayette Legs of Iñaki Minondo, Lafayette Waist of Iñaki Minondo, Lafayette Cool T-Shirt of Iñaki Minondo Cookie of Iñaki Minondo, Lafayette