**State of the Faculty**

Have you noticed the changes in the math faculty this term? Deanna Haunsperger, Steve Kennedy, and Katie St. Clair are on sabbatical. Furthermore, we are proud to welcome new members to our faculty: Allison Tanguay, Dave Watson, and Josh Davis.

Allison graduated from the University of Massachusetts. This term, she is teaching two sections of Math 111 and directing a comps group. In her free time, she enjoys spending time outdoors, especially hiking and bicycling. She is really excited about being a part of the Carleton community, and meeting and working with the students and faculty.

Dave graduated from Harvard University this past May, but for his undergrad, he was here at Carleton! This term, he is teaching Math 115 and 215 and also directing a comps group. When he's not teaching, he likes to run and play squash as well as pickup soccer. He was also a three-time champion of IM broomball back when he attended Carleton, so he hopes to recapture his championship broomball status on a faculty team this upcoming winter.

Josh is a research associate and visiting assistant professor who is teaching one section of Math 211 this term.

**Mathematics Colloquium**

On Thursday, Sept. 25, Julian Wolfson (Biostatistics, School of Public Health, University of Minnesota) will be speaking at 4:15 p.m. in CMC 206.

**Distributions, Data, and Doctors: Life As a Biostatistician**

Legendary statistician John Tukey once said “The best thing about being a statistician is that you get to play in everyone's backyard.” This is particularly true for biostatisticians, as we divide our time between research into novel statistical methods for designing and analyzing biomedical studies and collaborative projects on an amazing diversity of topics. In this talk, Julian will introduce the field of biostatistics through real-world problems that he has encountered in partnerships with (among others) cardiologists, epidemiologists, urban planners, and HIV researchers. Some of these problems have inspired the development of new statistical methods, and most remain only partially solved. At the end of the presentation, he will give a brief overview of the Masters and PhD programs in biostatistics at the University of Minnesota.

**LaTeX Workshop**

Come learn how to get started using the math typesetting program LaTex on Monday, Sept. 22 from 5:00 - 6:00 p.m. in CMC 201. This workshop will cover the basics of creating a document, organizing it, and making beautiful mathematical formulas.
Putnam Registration Time is Here!

Fall term is just getting underway, but it’s already time to register for this year’s William Lowell Putnam Mathematical Competition. As many of you know, the “Putnam” is a challenging exam focusing on mathematical insight and ingenuity. Typically, several thousand undergraduates across the United States and Canada participate, and the median score is usually less than 10 out of a possible 120. Whether you’ve taken the exam before or are considering taking it for the first time, you’ll probably enjoy getting experience with past Putnam problems (and learning some new problem-solving strategies) at our weekly problem-solving group, which meets every week on Wednesday, from 4:30 to 5:30 in CMC 328.

This year the Putnam will be held on Saturday, December 6. That’s during our winter break, but we’ll gladly make arrangements for you to take the Putnam at another college or university. If you’d like to sign up, contact Rafe Jones in person or via email (rfjones). For more information, see the bulletin board outside Math Skills, where a brochure will soon be posted, or talk to Rafe. Act now! Although the Putnam is still more than two months away, we have to submit a participant list soon, so your deadline for signing up is Friday, September 26.

Problem Solving

If you like solving math problems, and want to hone your skills, come to our weekly problem-solving meeting! It’s every Wednesday from 4:30 to 5:30 in CMC 328. The sessions this term will be organized by topic, and will include practice problems from the Putnam and other exams that are relevant to the topic. Our topic for the first two weeks is the pigeonhole principle.

Mathematics Annual Board Game Tournament Results

During Spring term of last year the math department had its annual student/faculty board game tournament, with a record 42 entrants. This year’s game was Hive, a chess-like game of ants, spiders, and bees designed by John Yianni. The students made quick work of the faculty, with last faculty members, Andrew Gainer-Dewar and Stephen Kennedy, falling in the third round. After a grueling 10-week tournament, four remained: Andrew Elenbogen, Raphael Liu, Zach Walsh, and Matt Sikkink Johnson. Amidst students making last minute preparations for finals in the Math Skills Center, the final game of the tournament pitted Liu against Johnson, with Liu ultimately prevailing and claiming the title of Queen Bee of the Mathematics Department.

Congratulations to the final four and all who played in the tournament. If you are interested in participating in the next student/faculty board game tournament, keep your eyes peeled for a sign up sheet in the winter. If you’d like to learn or play Hive, or other games such as Dominion or Settlers of Catan, you can do so now in the Math Skills Center where copies are freely available for all to play. Happy Gaming!

Study Abroad in Mathematics Education

The Budapest Semesters in Mathematics that we all know and love has a new sister organization, the Budapest Semesters in Mathematics Education, which is scheduled to enroll its first class for fall 2015. This study abroad program is based on the success of BSM, and it’s geared toward students who are interested in becoming middle school or high school teachers of mathematics. Hungary has a long tradition of excellence in mathematics education, rooted in problem solving, creativity, and communication. It would be a fantastic place to learn more about teaching mathematics. Get more information at bsmeducation.com.
Career/Summer Opportunities

L.E.K. Consulting Information Session
Carleton alum, Bill Brinkman ’12, Political Economy, Political Science/International Relation major currently working at L.E.K. Consulting in Boston will be on-campus on Sunday, Sept. 21. He will be holding an informal group discussion where he will cover specifics about the firm and talk about the open positions (Associate & Summer Associate). He will also talk unofficially about applying to consulting firms, how to advance your resume, and how to stand out in an interview. The event will be held at 4:00 p.m. in Sayles-Hill 251.

Amazon Information Session
Robert Early ’95 and John O’Brien ’14 will be on-campus to talk with interested students about Amazon’s Operations Rotational Financial Analyst position and the Operations Financial Internship. The event will be on Tuesday, September 30 in Willis 203. To learn more about the event and positions, visit apps.carleton.edu/career/events/?event_id=1180525

Morningstar Virtual Information Session
Morningstar will be conducting a virtual information session for their positions: Morningstar Development Program and Morningstar Development Program Technical Track. The webinar will be on Tuesday, September 23 at 5:00 p.m in Leighton 304. They are looking for the next generation of great ideas and the smart, driven individuals who are passionate about their mission to create great products that help investors reach their financial goals. For details, visit apps.carleton.edu/career/events/?event_id=1181850&date=2014-09-23

City Year Information Session
City Year Chicago will be conducting a virtual information session on Monday, September 22 at 7:00 p.m. in Sayles-Hill Lounge. The session will cover the open positions working as Tutors, Mentors, and Role-Models with students in high-need schools. For more information, visit apps.carleton.edu/career/events/?event_id=1176617&date=2014-09-22

Ernst & Young
Applications for Ernst & Young’s Tax-Transfer Pricing Intern and Full Time positions are due on Tuesday, September 30. To ensure your resume is as competitive as possible, the Career Center strongly encourages you to get your resume reviewed prior to submitting it to the Tunnel. For more information about the positions, visit apps.carleton.edu/career/events/?event_id=1181204

The Brattle Group
Apply to be a Research Analyst at The Brattle Group! Research Analysts are involved in diverse, challenging assignments within a stimulating, collegial work environment. They work side by side with internationally recognized experts in financial economics, corporate finance, energy, competition, and regulatory economics. Applications are due September 25. For more information, visit apps.carleton.edu/career/events/?event_id=1180564

Credit Suisse
Credit Suisse is seeking dynamic applicants for their Summer Internship Programs. The Summer Internship Program is available for juniors only. The Steps to Success Scholars Doug Paul Scholarship Program full-time summer internship is available for sophomores only. To learn more about the specifics of the programs, visit apps.carleton.edu/career/events/?event_id=1180948
**PROBLEMS OF THE FORTNIGHT**

Welcome to the new Problems of the Fortnight section, where in each issue, one to three exciting problems will be available for you to solve. Problems won't necessarily require any particular mathematical knowledge, so give them a try! Submit solutions to Tommy Occhipinti within the next 10 days either in his mailbox or via email (tocchipinti) to earn acknowledgement in the next Gazette and entry into a drawing for a prize. Solutions will be posted in the math hallway! Happy Solving!

**Problem 1:**
Find the first three positive integers ending in 6 with the unusual property that multiplying them by 4 yields the same number as moving the 6 from the end of the number to the beginning. (Your solution should use at most very limited amount of computation).

**Problem 2:**
Lord Melvin's country home is quite vast. Though it is a single floor, the manor has a remarkable 73 rooms. Due to a peculiar superstition, every room in the house has an even number of doors. The total number of doors is 137. Is the number of exterior doors on Lord Melvin's country home even or odd?

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**Green Corps**
Green Corps is looking for college graduates for their yearlong paid training program in environmental organizing and advocacy. The program provides hands-on experience fighting to solve urgent environmental problems and helps Green Corps graduates find careers with some of the nation's leading environmental and social change groups. For more info, visit [www.greencorps.org/findoutmore](http://www.greencorps.org/findoutmore)

**Cornerstone Research**
Cornerstone is seeking a full-time Analyst for their California, Los Angeles, Washington DC, New York, and Boston areas. As an Analyst, you will work in case teams with academic or industry experts, senior consultants, and other analysts. Applications are due October 8. For more info, visit [apps.carleton.edu/career/events/?event_id=1180874](http://apps.carleton.edu/career/events/?event_id=1180874)

**NSF Graduate Research Fellowships**
Are you a graduate-school-bound senior? Apply for National Science Foundation (NSF) Graduate Research Fellowships! Applications must be submitted no later than 8:00 p.m. EST on October 30.

**University of Michigan Biostatistics Prospective Student Information Day**
The University of Michigan, School of Public Health, Biostatistics Department will be holding a Prospective Student Information Day on October 11. Current students, faculty, and alumni will talk about the opportunities in the field, the job prospects post-graduation, and the admissions and financial support opportunities that are available.

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