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October 18, 2013

Dear Parents, Families, Friends, and Guests:

Welcome to Family Weekend 2013 at Columbia University! We are excited to have you here on our beautiful Morningside Heights campus. A major initiative of Parent and Family Programs and offices across the University, Family Weekend is a celebration of families that runs concurrent with our Homecoming.

We have a series of welcome, intellectual, informational, and social events planned for you in the hopes that you will experience, if only for a brief weekend, what it means to be a Columbia student. We also hope that you and your student enjoy time together as you reconnect.

My colleagues from across the campus community are ready to assist you and your family to ensure a memorable and enjoyable visit. We will be available at each Family Weekend event to answer questions and to help you make the most of your time on campus and in New York City.

Please talk with our staff and faculty and learn about ways you can involve and engage with Parent and Family Programs, both in person and online. For the full student experience during your visit, consider taking advantage of the many fine dining opportunities, recreational activities, performing arts events, and cultural happenings that make the City of New York an exceptional place. Your student may even suggest a few must-see destinations!

I look forward to sharing this weekend with you and your family. I encourage you to join our Facebook community to both see and share photos from this weekend. Welcome to campus and welcome to New York!

Regards,

Matthew Patashnick
Director of Parent and Family Programs
212-854-2446 | mp3039@columbia.edu

To download:

1. Visit the app store on your device.
2. Search for “MyCityWay: City Explorer” (iPhone) or “City Explorer: MyCityWay” (Android) & download.
3. Launch the program, and when prompted to provide the promo code, type in “columbiafamily” then select “OK.”

October 18 & 19, show your Family Weekend name badge at Joe Coffee, located in the Northwest Corner Building on the building’s 200 level, to receive a 20% discount off of beverages.
FRIDAY, OCTOBER 18

Family Weekend Registration and Check-in
8:00 a.m.–4:00 p.m.
Alfred Lerner Hall, North Lobby (115th Street and Broadway)

Columbia Alumni Center Open House
9:00 a.m.–5:00 p.m.
Columbia Alumni Center, 622 West 113th Street
All guests are welcome to stop by to tour the center, access the Internet, enjoy refreshments, or find information about campus events. The first-floor welcome center includes a lounge, library, seminar rooms, and courtesy center. For more information call 212-851-7398.

Campus Tour
9:15 a.m.–10:15 a.m.
Departs from Alfred Lerner Hall, 1st Floor, Broadway Lobby
Current undergraduate students will lead this information-packed campus tour and provide a student perspective on academic and cocurricular life at Columbia.

Morningside Heights Tour
9:15 a.m.–10:15 a.m.
Departs from Alfred Lerner Hall, 1st Floor, Broadway Lobby
With its great dining options and famous landmarks, Morningside Heights offers a rich and diverse landscape to residents and visitors. This tour explores the history and evolution of the neighborhood and highlights various points of interest from 112th Street to 120th Street.

Columbia College Welcome Brunch
10:00 a.m.–12:00 p.m.
Alfred Lerner Hall, 1st Floor, Roone Arledge Auditorium
Families of Columbia College students are invited to experience a true Columbia University welcome from the administration of Columbia College.

Wanna Bee? Career Development Center: Intro to the Internship Fair
10:00 a.m.–12:00 p.m.
Low Memorial Library, Low Rotunda
Presented by the Office of Career Development, Wanna Bee? introduces students to the Internship Fair and provides an overview and information on how to get involved.

Columbia Engineering Welcome Brunch
10:00 a.m.–12:00 p.m.
Low Memorial Library, Low Rotunda
Families of Columbia Engineering students are invited to experience a true Columbia University welcome from the administration of Columbia Engineering.

How the Core Makes Us Better: Professor Christa Mercer
12:00 p.m.–12:45 p.m.
Alfred Lerner Hall, 2nd Floor, Roone Arledge Auditorium
In our fast-paced lives, we face mind-boggling options about what to think and how to be. Literature Humanities offers help. Come find out how.

Rabi Scholars Program: 8th Annual Science Research Symposium Poster Presentations
12:00 p.m.–2:00 p.m.
Schermerhorn Hall, Room 603
Founded in 1989 by Columbia College and faculty of the science departments, the Rabi Scholars Program was established in memory of 1944 Nobel Laureate and Columbia physics faculty member I. I. Rabi. A small number of incoming first-year Columbia College students, and scholarship recipients, are chosen to be Rabi Scholars, and the program seeks to support them and encourage their scientific research opportunities throughout their undergraduate careers. Current Rabi Scholars will share their research in science and mathematics during this poster presentation.

Columbia Engineering Tour
12:15 p.m.–1:15 p.m.
Departs from Low Memorial Library, Low Rotunda
Engineering tours are conducted by current Columbia Engineering undergraduate students. The tours provide an in-depth look into Columbia Engineering facilities, research opportunities, research facilities, and social and academic life.

Championship Performance Initiative—Mental Preparation
12:30 p.m.–1:30 p.m.
Dodge Fitness Center, Lou Gehrig Lounge
Visit the Department of Intercollegiate Athletics and Physical Education to learn about the books and techniques used to help individuals and teams develop mental strategies that lead to consistent peak performance. Light refreshments will be served.

The Kraft Center for Jewish Life: Tour and Open House
12:30 p.m.–2:00 p.m.
606 West 115th Street (just west of Broadway)
Visit the Kraft Center for Jewish Student Life for a tour and open house. Ask questions and learn more about the vibrant Jewish campus community at Columbia University and Barnard College.

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Columbia Students Speak Out: Making the Most of Advising and Academic Opportunities
1:00 p.m.–1:45 p.m.
Pupin Hall, Room 301
A panel of current students share their experiences and discuss ways to take full advantage of the advising and academic resources provided by and through the Center for Student Advising.

Planning Ahead with Financial Aid
1:00 p.m.–1:45 p.m.
Alfred Lerner Hall, Room 555
To assist your family in planning for the coming academic year, Financial Aid staff will be available to review important dates and deadlines, share tips, and answer general questions. The Office of Undergraduate Financial Aid and Educational Financing (located on the 6th floor of Alfred Lerner Hall) will also be open from 9:00 a.m.–5:00 p.m. for walk-in hours.

Library Open House and Tours
1:00 p.m.–2:45 p.m.
Butler Library (meet in lobby)
1:00 p.m. Tour A (identical to tour B)
1:45 p.m. Presentation
2:15 p.m. Tour B (identical to tour A)
Columbia University Libraries/Information Services is a system of 22 libraries, including affiliates, offering extensive print and electronic resources, discipline-based digital centers, and a team of expert staff providing innovative services to support instruction and scholarship. Enjoy a tour, presentation, and light refreshments during this opportunity to learn firsthand how the libraries support your student.

Ancient and Medieval Global Seafaring and the Traveling Tale: Professor Pat Grieve
1:30 p.m.–2:15 p.m.
Schemehorn Hall, Room 501
1001 Nights, the Voyages of Sindbad (often compared to Homer's Odyssey), and the Panchatantra all journeyed by land and sea, from Asia across the Middle East and into Spain, and then the rest of Europe. This session will discuss why and how such tales easily crossed borders of geography and genre, and found their way into some of the most beloved works of writers such as Boccaccio and Shakespeare.

Everybody Knows (Some) Graph Theory: Professor Maria Chudnovsky
1:30 p.m.–2:15 p.m.
Alfred Lerner Hall, 2nd Floor, Roone Arledge Cinema
This lecture will be a gentle introduction into the speaker's field of research. We will use a few real-life situations to describe classical results in the area, as well as their connection to today's cutting-edge results.

Understanding Bright Matter—From Computer Chips to the Solar System: Professor Michael Mauel
1:45 p.m.–2:30 p.m.
Northwest Corner Building, Room 501
This summer, after a 35 year journey, Voyager 1 became the first spacecraft to leave our solar system and enter interstellar space. This technological achievement begins a new chapter in human history and also represents a triumph in our understanding of the “bright” ionized matter making up our visible universe. Columbia University scientists and students study the behavior of ionized matter with temperatures from millions to billions of degrees. Radio wave emission, charged particle acceleration, and reactive chemical processes set apart “bright” matter from ordinary gas, liquids, and solids. In this lecture, I will introduce the physics and applications of ionized matter and illustrate Columbia University's research in the production and control of matter at the highest temperatures found in the universe.

Center for Career Education Panel Discussion
1:45 p.m.–2:30 p.m.
Pupin Hall, Room 428
Join members of the Center for Career Education (CCE) and Columbia students to learn how CCE partners with and empowers students and alumni to take the necessary steps to achieve their career goals through counseling and professional development, internship programs, employer outreach, and major career fairs.

Letting Go: Challenges Parents Face
2:30 p.m.–3:15 p.m.
Alfred Lerner Hall, Room 555
Having your daughter or son leave home for college is not only a transition for your student. It is a moment of change and adjustment for you, too! Come to a discussion group with Dr. Maggi Walker from Counseling and Psychological Services. We will talk about some of the issues that can come up for parents at this transitional time in the family as well as some of the concerns that college students may be encountering.

Bio-Inspired Clean-Slate Computer Security: Professor Simha Sethumadhavan
2:30 p.m.–3:15 p.m.
Northwest Corner Building, Room 501
We constantly hear that our computer systems are being hacked, that our data has been exposed, and that computer systems and critical infrastructure exploitation will increase with time. Why is this happening? How do we protect ourselves? Can we do anything to prevent this? In this talk, I will answer these questions, and describe ongoing efforts on a bio-inspired security project to design systems with security as a first-order requirement.

Taking the Fifth (and Sixth)—Beethoven in Peace and War: Professor Elaine Sisman
2:30 p.m.–3:15 p.m.
Alfred Lerner Hall, 2nd Floor, Roone Arledge Cinema
Beethoven's Fifth and Sixth Symphonies, premiered on the same concert in 1808, appear strikingly different on the surface: the C-Minor Symphony offers an abstract struggle-to-triumph trajectory while the Pastoral evokes emotional responses to nature. Yet identical preoccupations with musical time and narrative experience shape each work, and the context of the Napoleonic Wars gives special point to musical topics referring to the external world such as a fanfare, drum tattoo, echo, and hymn.
FRIDAY, OCTOBER 18

Campus Tour
3:00 p.m.– 4:00 p.m.
Departs from Alfred Lerner Hall, 1st Floor, Broadway Lobby
Current undergraduate students will lead this information-packed campus tour and provide a student perspective on academic and cocurricular life at Columbia.

Coffee Break with Matthew Patashnick, Director of Parent & Family Programs
3:00 p.m.– 4:00 p.m.
Alfred Lerner Hall, 5th Floor, Jed D. Satow Room
Join Matthew Patashnick, Director of Parent and Family Programs, for coffee, tea, and refreshments, and learn about the various ways you can get involved with Columbia at our events on campus and around the world!

Center for Student Advising Open House
3:00 p.m.– 5:00 p.m.
Alfred Lerner Hall, 4th Floor
Visit the Center for Student Advising (CSA) to meet your student's adviser and learn more about the academic resources available to Columbia College and Columbia Engineering students. The CSA is the centerpiece of our integrated advising approach and warmly welcomes parents and families to tour the space and meet the advising team.

Adventures in Two Dimensions with the World's Strongest Material: Professor James Hone
3:30 p.m.– 4:15 p.m.
Alfred Lerner Hall, 2nd Floor, Roone Arledge Cinema
The Hone group creates and studies fundamental science and materials and structures at the nanoscale, with applications ranging from high-speed electronics to cell biology. This talk will focus on our studies of the mechanical behavior of graphene, a single atomic sheet of carbon. In 2008, we and collaborators demonstrated that graphene is the strongest known material, with a strength 100 times that of steel. We have more recently shown that this strength is largely preserved even in the presence of defects known as grain boundaries, opening up the possibility of using graphene as an ultrastiff material in many applications. We are also using graphene in nano-electromechanical devices, which vibrate at radio-frequencies. We can use these devices to generate radio signals, to make the world's smallest FM radio station.

Responsible Community @ Columbia Workshop
3:30 p.m.– 4:15 p.m.
Alfred Lerner Hall, Room 555
Research has demonstrated that parents and families can play a significant role in encouraging and supporting healthier decision making among college students. Since alcohol and other drugs are in everyone's environment, we invite you to continue the conversation regarding parents and families as proactive partners in promoting a responsible community. We will proudly share the findings from the 2012 and 2013 first-year student RC@C discussions and welcome your questions.

Earth's Ancient Climate: Professor Nicholas Christie-Blick
4:00 p.m.– 4:45 p.m.
Northwest Comer Building, Room 501
Natural and human-induced climate change are distinguishable because they occur at mostly different timescales, and because a clear connection has been established between contemporary warming and anthropogenic greenhouse gas emissions. The ice age climate in which Homo sapiens emerged some 200,000 years ago is nonetheless unusual in Earth's history. Mostly ice-free conditions are more typical. Among notable exceptions: between 715–635 million years ago, the planet became so cold that continental ice sheets advanced at sea level to within a few degrees latitude of the equator. That event has been the target of a great deal of research over the past 30 years because it was followed by the greatest flurry of biological innovation in the history of life.

Global Programs: Engaging the World
4:00 p.m.– 4:45 p.m.
Pupin Hall, Room 301
Opportunities for international study abound at Columbia. Study abroad through semester, yearlong, and summer programs empower students to cultivate new knowledge and gain the skills needed to be active and informed citizens of our global community. Come and learn about how the Office of Global Programs helps students every step of the way toward fulfilling their goals for international study.

Morningside Heights Tour
4:00 p.m.– 5:00 p.m.
Departs from Alfred Lerner Hall, 1st Floor, Broadway Lobby
With its great dining options and famous historical landmarks, Morningside Heights offers a rich and diverse landscape for its residents and visitors. This tour explores the history and evolution of the neighborhood and highlights various points of interest from 112th Street to 120th Street.

Family Reception
5:00 p.m.– 6:30 p.m.
Low Memorial Library, Low Rotunda
Join us for a casual reception to celebrate the end of a busy day. Mingle with staff representatives from offices across the University. Take time to enjoy a glass of wine and light hors d'oeuvres with good company, and be sure to wear some Columbia paraphernalia—you may receive a special gift!

Double Decker Bus Tour of NYC ($)
6:30 p.m.– 8:30 p.m.
Departs from Amsterdam and 116th Street
Embark on a real NYC adventure! Ride a double-decker bus and experience the sights and sounds of the world's greatest city. Preregistration is required, and this tour happens rain or shine.

Shabbat Dinner & Faculty Lecture at the Kraft Center ($)
8:00 p.m.–10:30 p.m.
606 West 115th Street (just west of Broadway)
Preregistered guests will join Columbia/Barnard Hillel for Shabbat dinner.
Family Weekend Check-in  
8:00 a.m.–12:00 p.m.  
Low Memorial Library, Lobby

Continental Breakfast (No formal programming)  
8:00 a.m.–12:00 p.m.  
Low Memorial Library, Rotunda  
Stop by any time between 8:00 a.m. and 12:00 p.m. to enjoy a light breakfast in the Low Memorial Library Rotunda, or head outside with your meal if the weather is nice.

Seeing the Heart with Light: Professor Christine Fleming  
9:30 a.m.–10:15 a.m.  
Uris Hall, Room 141  
Cardiovascular disease is the leading cause of morbidity and mortality in the United States. Progress within the cardiovascular field towards early diagnosis, increased efficacy in therapy, and understanding the underlying mechanisms of cardiovascular diseases have been aided in part by advances in medical imaging technologies. Optical coherence tomography (OCT) is a non-invasive imaging tool that provides high-resolution images of tissue in real-time. Fiber-based OCT systems can be incorporated into catheters to image internal organs. These features have made OCT a powerful tool for cardiovascular imaging, with major contributions to the field of coronary artery disease. This talk will discuss the steps taken toward clinical translation of OCT for applications in cardiac electrophysiology. This will include monitoring of radiofrequency ablation therapy for the treatment of arrhythmias and assessing structural abnormalities that can lead to heart failure.

Why Agamemnon Was Wrong about Women: Professor Edward Mendelson  
9:30 a.m.–10:15 a.m.  
Uris Hall, Room 142  
This talk will be on the ways in which Homer’s characters think about human beings either as members of categories or as individual persons, and either subject to fate or shaped by their own choices.

Columbia Alumni Center Open House  
9:30 a.m.–4:00 p.m.  
Columbia Alumni Center, 622 West 113th Street  
All guests are welcome to stop by to tour the center, access the Internet, enjoy refreshments, or find information about campus events. The first-floor welcome center includes a lounge, library, seminar room, and courtesy office. For more information call 212-851-7398.

The Kraft Center for Jewish Life: Tour and Open House  
10:00 a.m.–12:00 p.m.  
606 West 115th Street (just west of Broadway)  
Visit the Kraft Center for Jewish Student Life for a tour and open house. Ask questions and learn more about the vibrant Jewish campus community at Columbia University and Barnard College.

Faculty-in-Residence Open Houses  
10:30 a.m.–12:00 p.m.  
Join Professor Ioannis Kymissis, Professor Sam Roberts, or Professor Robert Harrist in their homes for coffee, light fare, and conversation. The Faculty-in-Residence program houses faculty members and their families in Columbia University residence halls and promotes greater connection between students and professors. Locations follow.

- Professor Harrist – East Campus, 4th Floor  
- Professor Roberts – Schapiro Hall, 605-615 W. 115th Street, 17th Floor  
- Professor Kymissis – Living and Learning Center, Hartley Hall, 1114 Amsterdam Avenue (enter from campus side)

Pre-game Picnic Under the Big Tent and Columbia Homecoming Carnival ($)  
11:00 a.m.–1:30 p.m.  
Baker Athletics Complex, 533 West 218th Street  
Admission includes an all-you-can-eat lunch, soft drinks, and admittance to the Columbia Homecoming Carnival. Beer, wine, and cocktails are available at an additional cost. Preregistered guests will receive a wristband for entry; tickets may be purchased on site for $22/adult, $12/child.

Contemporary Civilization Lecture: Professor E. Valentine Daniel  
11:30 a.m.–12:15 p.m.  
Uris Hall, Room 142  
Introducing the Bible to Columbia College students in the 21st century. Contemporary Civilization is a year-long course, typically taken during a student’s second year that introduces a range of issues concerning the kinds of communities—political, social, moral, and religious—that human beings construct for themselves and the values that inform and define such communities.

Mechanical Role of the Cervix During Pregnancy: Professor Kristin Myers  
11:30 a.m.–12:15 p.m.  
Uris Hall, Room 141  
The female body dramatically evolves to accommodate the growing fetus, and mechanical engineering research helps clinicians understand and manage pregnancies.

Homecoming Football Game: Columbia vs. Penn ($)  
1:30 p.m.–4:30 p.m.  
Baker Athletics Complex, 533 West 218th Street  
Complimentary shuttle buses will be available from the Morningside campus to and from Baker Athletics Complex. Buses will depart from the gate at West 116th Street and Broadway starting 90 minutes prior to kickoff and will return to campus immediately following the game. Alternatively, take the 1 train to 215th Street or take the A train to Inwood - 207th Street. For the most up-to-date information on all MTA transit schedules, visit mta.info. Those who would like to attend the game but did not purchase tickets in advance may call 212-851-7834 to determine availability.
SATURDAY, OCTOBER 19

**Broadway Show: After Midnight ($)**
2:00 p.m.– 3:30 p.m.
Brooks Atkinson Theatre, 256 W. 47th Street
(Between Broadway and 8th Ave.)
Advanced ticket purchase required.

**Le Poème Harmonique ($)**
8:00 p.m.– 10:00 p.m.
Miller Theatre, 2960 Broadway
Acclaimed French early-music ensemble Le Poème Harmonique returns following two sell-out Opening Night concerts last season. Centered around Monteverdi’s revolutionary II Combattimento di Tancredi e Clorinda, considered one of the finest madrigals of war, this season’s program contrasts Monteverdi’s dramatic cantata with a light-hearted piece by Marazzoli that parodies the same love-lorn tale. Showcasing works in stile rappresentativo—a style of singing developed in 16th century Italian opera that is more emotive than speech but less melodic than song—Le Poème Harmonique celebrates music as a means of connection and poetic communication. Advanced ticket purchase required.

**Visit to the American Museum of Natural History ($)**
10:00 a.m.– 5:45 p.m.
Central Park West at 79th Street
Advanced ticket purchase required. Tickets must be used on this date.

**Broadway Show: Annie ($)**
1:00 p.m.– 3:30 p.m.
Palace Theatre, 1564 Broadway
Advanced ticket purchase required.

**Notes and Keys Open Rehearsal**
1:00 p.m.– 3:00 p.m.
Wallach Lounge
Join members of Columbia’s oldest a cappella group as they practice their repertoire. The group sings pop, R&B, jazz, and more, and performs all over New York City. Past performances include sets at Gracie Mansion for Mayor Bloomberg and in Yankee Stadium, on live television and VH1, and, of course, right here on Columbia’s campus.

**Broadway Show: Peter and the Starcatcher ($)**
3:00 p.m.– 5:15 p.m.
New World Stages, 340 West 50th Street
Advanced ticket purchase required.

**WORSHIP SERVICES**

The Office of the University Chaplain aims to foster learning through spiritual, ethical, religious, political, and cultural exchange and the promotion of service opportunities in the life of the University. The Earl Hall Center and Office of the University Chaplain sponsor many of the religious, spiritual, student activity, and community service groups and programs on campus, including Community Impact, United Campus Ministries, and Music at St. Paul's. The weekly meetings and worship services below are just a sample as these are merely the events taking place during Family Weekend.

-Chabad at Columbia University/Barnard College
www.chabadstudentcenter.com

-Columbia/Barnard Hillel
www.hillel.columbia.edu (See page 11)

-Columbia Catholic Ministry (Mass)
Fridays, 12:15 p.m.–1:00 p.m., Nave, St. Paul’s Chapel
Sundays, 5:00 p.m.–6:00 p.m., Nave, St. Paul’s Chapel

-Columbia Chinese Bible Study Bible Study
Fridays, 7:00 p.m.–10:45 p.m., Study and Choir Room, St. Paul’s Chapel

-Episcopal Campus Ministry Worship
Sundays, 6:15 p.m.–7:00 p.m., Nave, St. Paul’s Chapel

-Hindu Students Organization Bhajans
Fridays, 6:00 p.m.– 8:00 p.m., Choir Room, St. Paul’s Chapel

-Lutheran Campus Ministry Worship
Sundays, 8:00 p.m.– 9:30 p.m., Nave, St. Paul’s Chapel

-Muslim Campus Ministry Salat Ul-Jumuah
Fridays, 1:00 p.m.– 2:30 p.m., Auditorium, Earl Hall

-Fajr, Fuhur, Asr, Maghrib & Isha’a
Fridays, 8:00 a.m.– 8:00 p.m., Prayer Room (102), Earl Hall

-Presbyterian Campus Ministry Worship
Sundays, 11:00 a.m., Broadway Presbyterian Church, 601 West 114th Street
James J. Valentini has served as Dean of Columbia College and Vice President for Undergraduate Education since September 2011. Affectionately called “Deantini” by Columbia undergraduates, he has been a member of Columbia’s faculty since 1990 and previously served as chair of the Chemistry Department and director of the Chemistry Department’s Undergraduate Studies Program. He was also instrumental in creating the Science Research Fellows program. Before becoming Dean, Professor Valentini served on numerous College and University committees focused on curriculum matters, undergraduate affairs, alumni relations, and faculty governance, diversity and tenure.

As the chief academic and executive officer of Columbia College, Dean Valentini’s central focus is to support and develop the College so that students and faculty have the best possible experience. The Dean oversees the College curriculum, which includes the Core Curriculum, as well as the academic and administrative services and policies that contribute to the undergraduate experience inside and outside of the classroom. He is a member of the Executive Committee of Arts and Sciences, together with the Dean of the Graduate School and the Dean of the Faculty. The Executive Committee has major decision-making authority for the Arts and Sciences and its constituent schools.

Dean Valentini earned his B.S. in Chemistry from the University of Pittsburgh, his M.S. in Chemistry from the University of Chicago, and his Ph.D. in Chemistry from Harvard University. He was a member of the research staff at Los Alamos National Laboratory and a professor of chemistry at the University of California, Irvine, before coming to Columbia. He has taught many undergraduate and graduate chemistry lecture courses and developed and taught research seminars for first-year students and seniors. He is known around campus for hosting frequent office hours and “Dine with Deantini” lunches, blogging and handing out candy canes in Butler Library during finals weeks.

Mary C. Boyce is Dean of Engineering and Morris A. and Alma Schapiro Professor at Columbia University’s Fu Foundation School of Engineering and Applied Science. Prior to joining Columbia, Dean Boyce served on the faculty of Massachusetts Institute of Technology (MIT) for over 25 years, leading the Mechanical Engineering Department from 2008 to 2013. Her research focuses on materials and mechanics, particularly in the areas of molecular and nanomechanics of polymers and soft composites, both those that are man-made and those formed naturally.

Her leadership in the field of the mechanics of materials has expanded understanding of the interplay between micro-geometry and the inherent physical behavior of a material, which has led to innovative hybrid material designs with novel properties. Models and results from her group have the potential to influence a range of industrial and academic fields from polymer processing to composite material design, tire mechanics, protective armor designs, and transformative meta-material design. She is well known for her collaborative work and leadership in overseeing research teams that bring together faculty from different departments and universities and is the author of more than 150 archival journal publications with her group.

Dean Boyce has been widely recognized for her scholarly achievements, including election as a fellow of the American Society of Mechanical Engineers, the American Academy of Arts and Sciences, and the National Academy of Engineering. She also has been honored for her teaching at MIT, where she was named a MacVicar Faculty Fellow and received the Joseph Henry Keenan Innovation in Undergraduate Education Award. Dean Boyce earned her B.S. degree in engineering science and mechanics from Virginia Tech, and her M.S. and Ph.D. degrees in mechanical engineering from MIT.
Terry Martinez is the Interim Dean of Student Affairs for Columbia College and Columbia Engineering at Columbia University, overseeing many aspects of campus life in support of students’ academic and personal success and how the division connects, engages, and supports students throughout the areas of Student Advising, Community Development (which includes the areas of Student Engagement, Multicultural Affairs, Residential Programs, and International Student Services and Programs), Judicial Affairs, Special Events and Programs, Communications, Student and Alumni Engagement, and Parent and Family Programs.

Prior to her arrival at Columbia, Dean Martinez held a number of directorships and dean-level positions at Ithaca College, Wells College, SUNY Old Westbury, and St. Joseph’s College in Brooklyn, NY. An active member of her community, she has served as a consultant for numerous not-for-profit organizations and state agencies. She currently serves on the National Association of Student Personnel Regional Advisory Board and regularly speaks throughout the region on issues of leadership and professionalism in higher education administration and current issues in Student Affairs.

Dean Martinez earned her B.A. degree in Social Work from the State University College at Buffalo and her M.A. in Applied Psychology from New York University. Prior to coming to Columbia, she began pursuing a doctorate degree in Cultural Foundations of Education from Syracuse University, and she continues her education in History and Education at Teacher’s College.

Matthew Patashnick is the Director of Parent and Family Programs at Columbia University and has served in this role since 2010. As director, Matthew works with the parents and families of Columbia College and Columbia Engineering undergraduate students at all stages of their Columbia experience. His office serves as a resource to parents and is always available to answer questions, offer guidance, and provide opportunities for parents to get involved at Columbia.

Prior to joining the Columbia University community, Matthew held various positions within the administrations of New York University, the University of Massachusetts Amherst, and The George Washington University. Matthew earned a B.A. in Human Services and Sociology from The George Washington University, and an M.Ed. in Education Policy, Research, and Administration from the University of Massachusetts Amherst.

Parent and Family Programs

Parent and Family Programs provides parents and family members with opportunities to play an active and supportive role in the education of their Columbia student.

We seek to answer questions and provide critical information about Columbia; to provide opportunities for networking and relationship-building with other Columbia families; to enhance communication between the University and families; and to help define the involvement of the parent and family community.

Parent and Family Programs, in collaboration with offices and departments across campus, works with parents and families to help them understand the Columbia student experience, support student learning, and empower students to take personal responsibility for their social and academic choices.
Maria Chudnovsky  
**Associate Professor of Industrial Engineering and Operations Research**  
Everybody Knows (Some) Graph Theory  
Ph.D., Princeton University, 2003

Professor Chudnovsky explores classifications and properties of graphs that can serve as shortcuts to brute-force methods, showing that a specific graph belongs to a certain class often implies that it can be calculated relatively quickly. In an early breakthrough, Chudnovsky and colleagues proved a conjecture offered in the early 1960s, known as the “Strong Perfect Graph Theorem,” that identifies specific criteria required for a graph to fall into the “perfect” class. Any perfect graph can be colored efficiently (i.e., no node is connected to another node of the same color), and graph coloring bears a direct relation to finding efficient solutions to problems such as allocating non-interfering radio frequencies in communication networks. Since this landmark accomplishment, Chudnovsky has continued to generate a series of important results in graph theory. She is a 2012 MacArthur Fellow.

Nicholas Christie-Blick  
**Professor of Earth and Environmental Sciences**  
Earth’s Ancient Climate  
Ph.D., University of California, Santa Barbara, 1979

Professor Christie-Blick’s research deals with sedimentation processes, crustal deformation, and deep-time Earth history. His current research in sedimentary geology and sequence stratigraphy is aimed at such varied topics as how sedimentation responds to sea-level change, deformation, and other phenomena; mechanisms of crustal extension, with particular reference to the low-angle normal fault paradox; and the geology of the Neoproterozoic Era, an interval of time that is unusual for its climatic extremes and as a threshold in the history of life. Much of the work is collaborative, with emphasis on challenging conventional thinking and resolving outstanding disagreements. He lived in southern Africa during the 2011-12 academic year, doing research, writing, and presenting seminars. He will teach in and chair Frontiers of Science in fall 2014. Frontiers of Science integrates modern science into Columbia’s famed Core Curriculum, and since its first full year in 2004–05 the course has been a requirement for every Columbia College undergraduate.

E. Valentine Daniel  
**Professor of Anthropology**  
Contemporary Civilization Lecture  
Ph.D., University of Chicago, 1979

Professor Daniel is interested in the relevance of the writings of Charles S. Peirce and Martin Heidegger for anthropological theory and practice. He explains: “European modernity begins and is sustained, I hold, by the—unwarnted?—questions raised by Descartes and the—inadequate?—answers provided by him and most major thinkers in the western intellectual tradition who followed him. And anthropology is a capricious child of such a modernity because of its encounter with systems of thought and action that interrogate this modernity on the one hand and its filial loyalty to its own disciplinary heritage on the other. Peirce and Heidegger, as two of the most powerful critics of Cartesianism, show us ways of connecting non-western (ethnographic) critiques to western modernism’s (philosophical) critiques deriving from these two thinkers. Against this road problematic, I do research and write on semeiotic, violence, refugees and plantation labor. My geographic areas of research are South India and Sri Lanka.”

Christine P. Fleming  
**Assistant Professor of Electrical Engineering**  
Seeing the Heart with Light  
Ph.D., Case Western Reserve University, 2010

Professor Fleming is an assistant professor in the Department of Electrical Engineering. Her research interests are in developing optical imaging and spectroscopy instruments for applications in cardiac electrophysiology and interventional cardiology. She thoroughly enjoyed her college years by participating in undergraduate research, intramural sports, and taking advanced courses.
Patricia E. Grieve  
**Nancy and Jeffrey Marcus Professor in the Humanities**  
Ancient and Medieval Global Seafaring and the Traveling Tale  
Ph.D., Princeton University, 1983

Professor Grieve's core work focuses on the transformation through the centuries of Middle Eastern myths and tales into the basis for religious and literary works in Western Europe, and the role that stories and storytelling play in shaping and reflecting cultures, especially in Spain, England, Italy, and France, in medieval and early modern short fiction, hagiography, romance, ballads, folktales, historiography, and the works of Cervantes. A recipient of multiple grants from the National Endowment for the Humanities, as well as from Spain’s Ministry of Culture, Professor Grieve is the author of many articles and three books, Desire and Death in the Spanish Sentimental Romance 1440–1550, Floire and Blancheflor and the European Romance, and The Eve of Spain: Myths of Origins in the History of Christian, Muslim and Jewish Conflict. Professor Grieve served as the Chair of the Department of Spanish and Portuguese for ten years. She is a former Chair of Literature Humanities, the Committee on the Core, is currently the Chair of the Committee on Global Core, and serves as Columbia’s Faculty Representative to the NCAA. In 2006, she received the Distinguished Service to the Core Curriculum Award.

James Hone  
**Professor of Mechanical Engineering**  
Adventures in Two Dimensions with the World’s Strongest Material  
Ph.D., University of California, Berkeley, 1998

Professor Hone heads an interdisciplinary research group focused on novel materials synthesis and device nanofabrication. The research has diverse applications in radio-frequency signal processing, electronics, optical signal processing, energy generation, biological and molecular sensors, and immunology. The group is highly collaborative and works with research groups in physics, chemistry, material science, electrical engineering, and mechanical engineering.

Clark T. Hung  
**Professor of Biomedical Engineering**  
Bioengineering Strategies for Joint Repair  
Ph.D., University of Pennsylvania, 1995

Professor Hung has been pursuing in-depth multidisciplinary collaborations with faculty and students from the Departments of Biologicall Sciences, Mechanical Engineering, Chemical Engineering, and Orthopaedic Surgery using state-of-the-art biological and engineering tools to perform research aimed at the study of physical effects (e.g., cell deformation, fluid flow effects, hydrostatic pressure) on cells and tissues, and the incorporation of these forces in strategies to develop functional tissue substitutes of clinical relevance. An understanding of the effects of physical forces on cells is important in the development of effective tissue replacements which mimic or restore normal tissue structure-function in orthopaedic and other load-bearing tissues of the body. Such studies are aimed at alleviating the most prevalent and chronic problems afflicting the musculoskeletal system such as arthritis, and problems related to sports and occupational injuries. His group’s research on allograft preservation is in the process of being licensed to a national tissue bank, and they recently received a notice of allowance for a patent for some of their tissue engineering research.

Michael Mauel  
**Professor of Applied Physics & Applied Math**  
Understanding Bright Matter: From Computer Chips to the Solar System  
Ph.D., Massachusetts Institute of Technology, 1983

Professor Mauel has pioneered the laboratory magnetosphere as a research instrument to understand the ionized matter that comprises our "bright" visible universe and protects our planet from the solar wind. Today, the physics of ionized matter is essential to understanding our place in the solar system and to the technologies used to fabricate fine, sub-micron, features on computer chips.
Edward Mendelson
Lionel Trilling Professor in the Humanities
Why Agamemnon Was Wrong about Women
Ph.D., Johns Hopkins University, 1969

A recipient of American Council of Learned Societies, NEH, and Guggenheim fellowships, Professor Mendelson is chiefly interested in 19th- and 20th-century literature, formal and social aspects of poetry and narrative, and biographical criticism. He is Auden’s literary executor; his book Later Auden (1999) is a sequel to his Early Auden (1981). His book The Things That Matter: What Seven Classic Novels Have to Say About the Stages of Life was published by Pantheon in 2006. A new book on twentieth-century American writers will be published by New York Review Books in 2013. He has edited a volume of essays on Thomas Pynchon and, with Michael Seidel, Homer to Brecht: The European Epic and Dramatic Traditions. He has prepared editions of novels by Hardy, Bennett, Meredith, Wells, and Trollope, the first five volumes of a complete edition of Auden, and selections of Auden’s poems and prose. His essays and reviews have appeared in the New York Review of Books, London Review of Books, TLS, the New York Times Book Review, and many other journals and collections, and he wrote an introduction for a new edition of Gravity’s Rainbow. He has also written about computers, music, and the visual arts. He is a Fellow of the Royal Society of Literature and was the first Isabel Dalhousie Fellow at the Institute for Advanced Studies in the Humanities at the University of Edinburgh.

Christia Mercer
Gustave M. Beme Professor of Philosophy
How the Core Makes Us Better
Ph.D., Princeton University, 1989

Professor Mercer has begun to devote herself more and more to contextualizing the history of philosophy. To that end, she designed a book series, Oxford Philosophical Concepts (OPC), that enlists prominent international scholars to think creatively about the “lives” of concepts in the history of philosophy. As of 2013, there are 30 volumes in various stages of production, with 10 soon to be published. These include Memory, Evil, Eternity, Space, Consciousness, Health, Sympathy, Efficient Causation, and Moral Motivation. Each edited volume traces the concept’s original inception through its transformations to its modern use. One of the most innovative features of OPC is its recognition of the rich relation that art, architecture, music, literature, science, religion, and other cultural practices have with philosophy. In order to broaden the historical and disciplinary scope of its concept, each volume includes Reflections. Written by specialists from diverse fields, these short essays explore how artists, artisans, scientists, composers, and innovators have engaged the concept.

Kristin Myers
Assistant Professor
Mechanical Role of the Cervix During Pregnancy
Ph.D., Massachusetts Institute of Technology, 2008

Professor Myers investigates the mechanical behavior of soft tissues in order to understand how their tissue architecture influences constitutive behavior and disease development and to aid in early diagnosis and treatment. One of her main focuses is the characterization of the cervix during normal pregnancy and the pre-term labor condition known as cervical insufficiency. A woman with cervical insufficiency has a softer, weaker, or abnormally short cervix, which may efface and dilate without contractions in the second or early third trimester as the weight of a baby puts increasing pressure on it. Myers works to identify abnormal extra cellular matrix components that lead to the altered mechanical function of the tissue and is developing new instruments that can test the strength of the cervix.

Simha Sethumadhavan
Associate Professor of Computer Science
Bio-Inspired Clean-Slate Computer Security
Ph.D., University of Texas, Austin, 2007

Professor Simha Sethumadhavan is an Associate Professor of Computer Science at Columbia University. Simha’s research interests are in hardware security and energy-efficient computing. He is the principal investigator on the $6.9M DARPA SPARCHS project at Columbia University. The goal of the project is to discover how systems should be designed if security was a first-order design requirement in addition to the traditional requirements like power/performance etc. He has been recognized with an Alfred P. Sloan Fellowship (2013), NSF CAREER award (2011), two IEEE Micro “top pick” awards (2004, 2013), and a graduate teaching award (2006).
Elaine Sisman  
Anne Parsons Bender Professor of Music  
Taking the Fifth (and Sixth): Beethoven in Peace and War  
Ph.D., Princeton University, 1978

Professor Sisman’s studies of Haydn, Mozart, and Beethoven interweave music with history, biography, aesthetics, and analysis. Her Haydn and the Classical Variation (Harvard, 1993) demonstrates the centrality of variation as a vehicle of musical discourse, complementing her book-length survey of the genre of variation for New Grove (2000). Other books place Classical instrumental works in contexts of socio-musical ideas, rhetoric, the sublime, and the stage. Her most recent publications explore Haydn’s solar poetics (which includes images of 18th-century star maps and an “astronomical apparatus” owned by his patron), the opus concept in the eighteenth century, “island opera,” and marriage in Don Giovanni. She is currently at work on two major projects, one on Don Giovanni and one titled The Music of Illumination: Haydn, Mozart, and Beethoven in the Era of Enlightenment, which considers scientific knowledge, art, and melancholy within musical conceptions of shadow and light.

In addition to serving as President of the American Musicological Society, to which she was elected to honorary membership in 2011, Sisman has chaired the Music Department, Music Humanities, the Society of Fellows in the Humanities, and Phi Beta Kappa at Columbia. She is a recipient of the University’s Great Teacher Award (1992) as well as its award for Distinguished Service to the Core Curriculum (2000).

MOBILE APPLICATIONS

Central Park  
The official mobile guide to one of New York’s most popular green spaces, this app from the Central Park Conservancy provides users with a wealth of information about the many attractions and activities in Central Park.

HopStop  
Even seasoned New Yorkers get mixed up! Luckily, most public transportation hurdles can be prevented by using HopStop, an app that respects the value of your time and gives accurate, detailed directions to anywhere in the city. It’s truly as simple as that.

MoMA  
A modern way to consume modern art. Search the museum’s collection, check out current and upcoming exhibits, and take guided tours.

NYC Way  
Delivering more than 60 apps for street vendors, nightlife, tourist attractions, subway stations, the garbage collection schedule, and everything in between, it’s hard to believe that this is also free.

The Scoop  
The Scoop is a guide to New York City from the staff of The New York Times. Here’s how it works: we give you lists of our favorite restaurants, bars, coffee shops, stores, and events. You go out and have fun.

Time Out NY  
This app provides updated events listings, as well as reviews of arts, music, nightlife, restaurants, and bars. Listings can be sorted by “Critic’s Picks” and “Free and Cheap.”

Urbanspoon  
This app is here to help you make an educated decision about where to eat among the infinite culinary options in the city, and it even locates the closest restaurants to you, filtering them by price and cuisine.

Yelp  
Yelp is a website and mobile app that connects people with great local businesses. Users can search for nearby restaurants, bars, businesses, and stores to see photos, business information, and, as you’d expect, plenty of user reviews.
DINING OPTIONS

Morningide Heights

From pizza to burgers, falafel to sushi, and burritos to salad, the dining options are nearly endless at Columbia. Feel free to ask us for our personal recommendations, or just head to one of these delicious spots in our neighborhood, Morningside Heights.

Bistro Ten 18
1018 Amsterdam Avenue at 110th
Fresh, Local American Bistro

Community Food & Juice
2893 Broadway
Between 112th and 113th
New American Cuisine, Health Food, Juice Bar

Deluxe
2896 Broadway
Between 112th and 113th
Traditional American Diner Cuisine

Dinosaur BBQ
700 W 125th Street at Riverside Drive
Traditional Barbecue Menu

Five Guys
2847 Broadway
Between 110th and 111th
Burgers and Fries

Havana Central
2911 Broadway
Between 113th and 114th
Cuban Cuisine

The Heights Bar & Grill
2867 Broadway
Between 111th and 112th
Southwestern Bar Food with a Rooftop

Amigos
2888 Broadway
Between 112th and 113th
Mexican Cuisine

Kitchenette
1272 Amsterdam Avenue at 122nd
Traditional Diner Food, Great Omelets

Koronet Pizza
2848 Broadway
Between 110th and 111th
Biggest Slice of Pizza Around

Le Monde
2885 Broadway
Between 112th and 113th
Traditional French Bistro

Maoz Vegetarian
2857 Broadway
Between 110th and 111th
Vegetarian with a Falafel Specialty

Mel's Burger Bar
2850 Broadway
Between 110th and 111th
Burgers, Fries, and Shakes

Milano Market
2892 Broadway
Between 112th and 113th
Italian Deli

Nussbaum & Wu
2897 Broadway at 113th
Sandwiches, Soups, and Salads

Strokos Pizza
1090 Amsterdam Avenue at 114th
Pizza and Deli Sandwiches

Tom’s Restaurant
2880 Broadway at 112th
Diner known as “That Seinfeld Restaurant”

Vine
2953 Broadway
Between 115th and 116th
Mix of Japanese and Thai Cuisine, Sushi Bar

AND THE SURVEY SAYS...

Columbia Student Affairs staff members were asked to weigh in on their favorite New York City experiences, restaurants, and places to visit!

Good Eats

New York City is the food capital of the world, known for its variety of ethnic cuisines, great restaurants, and the ability to find any kind of food at any hour of the day.

• Try a cannoli at Rocco’s Pastry Shop in the West Village (243 Bleecker Street).
• Experience dim sum in Chinatown.
• For one of the best burgers in town, visit Shake Shack (Madison Sq., Upper East, Upper West, Battery Park, Theater District, and Brooklyn).
• Check out Katz’s Deli for a classic New York eatery (205 East Houston Street).
• Try Eataly! It is the largest artisanal Italian food and wine marketplace in the world! (200 5th Avenue).
• One of the reasons why New York is a foodie’s mecca: Chelsea Market (75th Avenue).
• In the mood for some comfort food? Check out Red Rooster (310 Malcolm X Boulevard).
• Grab a slice of pizza at the original Patsy’s Pizza (1st Avenue and 118th).

Things to Do and Places to See

If you have a few free hours, here’s a list of our must-see places around Manhattan.

• Take a stroll in Central Park, Riverside Park, or across the Brooklyn Bridge.
• Ride a bike along the Hudson River. (Check out CitiBike.)
• Walk along the High Line Park, built on a historic freight rail line elevated above the streets on Manhattan’s West Side.
• Play a game of mini-golf at Pier 25 along the West Side Highway.
• Visit the American Museum of Natural History in the Upper West Side.
• Soak in some jazz at Lincoln Center.
• Take a ride on the Staten Island Ferry, East River Ferry, or Circle Line.
• See the sights at South Street Seaport.
• The Cloisters Museum and Gardens are easily accessible by subway, bus, or car.
• Check out the Brooklyn Flea and Smorgasburg!
Subway fare is $2.50, payable with a MetroCard, with the exception of SingleRide tickets, which cost $2.75 and are sold exclusively at MTA vending machines.

People 65 years or older and people with qualifying disabilities who show a proper form of identification (including Reduced-Fare MetroCard or a Medicare card) are eligible for a reduced fare.

The New York City subway has 468 stations serving 24 subway lines—more than any other system in the world. Routes are identified by letters, such as 2, 3, or numbers, such as 1, 2, 3, etc. These routes serve Manhattan, the Bronx, Brooklyn, and Queens. The Staten Island Railway (SIR) serves Staten Island.

The front and side of every train displays the route number or letter. In many instances, more than one train route stops at particular stations, so you’ll want to be sure to read the route number before you get on. Keep in mind that a local train makes every stop while an express train skips some stops.

**Traveling on Weekends: Using the Weekender**

When subway lines need maintenance and repair, this is typically done late at night and **during weekends**, when fewer people are using the subway. The Weekender is your guide to understanding these planned service changes. You’ll be able to check by line or by station and zoom in on the diagram provided online or through the Weekender app. If a station is blinking, simply click to get details and travel alternatives for reaching your desired station.

You can find the free Weekender app in the Google Playstore and the Apple App Store.

If you do not have a device to download the app, find information on service changes at each station, either posted or by speaking with a station agent in the booth. (Although the subway operates 24 hours a day, not all station entrances are accessible at all times or have full-time agents.)

**Across-the-platform transfers and connections**

Many subway stations let you cross the platform to change from one route to another. However, at times, trains leave before customers can make the connection. This usually happens during rush (peak) hours when the subway is busiest and trains run more frequently. If a train doesn’t proceed, it can affect the schedule, backing up trains behind it and slowing service all along the line.

During off-peak hours, when the subway is less crowded, conductors can hold trains that enter the same station at the same time, and passengers can transfer across the platform. Subway personnel can do this as long as both trains are on schedule and waiting will not disrupt either train’s schedule.