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The Fu Foundation School of Engineering and Applied Science has made every effort to ensure that the information in this report is both complete and accurate. Should you believe that any information in this report is incorrect, please contact:

Engineering Annual Giving Team
212-854-3980
engineeringfund@columbia.edu

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The Fu Foundation School of Engineering and Applied Science
Columbia University
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New York, NY 10025
jg426@columbia.edu
646-745-8405

DESIGNATIONS USED IN THIS REPORT:

ALP American Language Program
BC Barnard College
BUS Columbia Business School
CC Columbia College
DM College of Dental Medicine
GS School of General Studies
GSAS Graduate School of Arts and Sciences
GSAPP Graduate School of Architecture, Planning and Preservation
JRN Graduate School of Journalism
LAW Columbia Law School
NP School of Nursing
PH Mailman School of Public Health
PS College of Physicians and Surgeons
SIPA School of International and Public Affairs
SW School of Social Work
TC Teachers College
GP Grandparent
P Parent
* Deceased

Cover Photo: Photo of the 150th Engineering Gala, at The Cathedral Church of St. John the Divine, Phoenix exhibit, by artist Xu Bing
By any standard, 2014–2015 was an amazing year at The Fu Foundation School of Engineering and Applied Science. We completed our incredible sesquicentennial celebration with a packed academic symposium and an unforgettable gala dinner in the Cathedral of St. John the Divine. Our faculty embarked on an ambitious strategic planning process that will help direct our School’s research and teaching over the next decade.

We continued to grow our faculty. We opened new research laboratories and renovated numerous education and research laboratories, classrooms, and student spaces. And we attract the finest undergraduates and graduate students from across the country and around the globe.

Your contribution, together with those of the other donors listed in this report, helped make all this happen. Last year 4,200 alumni, parents, students, and friends contributed to a record-setting fundraising year for SEAS, raising more than 26 million dollars for the Engineering School. Your generous support helps our students and faculty achieve at the highest level.

This year, we’ve started to encapsulate Columbia Engineering’s inspiring mission statement into a simple motto: Transcending Disciplines, Transforming Lives, Educating Leaders. With the generous support of donors like you, this motto will come to symbolize a powerful reality for our students, faculty, and alumni.

On behalf of everyone at Columbia Engineering, thank you again for your support.

Sincerely yours,

Mary C. Boyce

Dean, The Fu Foundation School of Engineering and Applied Science
Morris A. and Alma Schapiro Professor

Mary C. Boyce is Dean of Engineering at The Fu Foundation School of Engineering and Applied Science and the Morris A. and Alma Schapiro Professor of Engineering.
Archimedes Society for Lifetime Giving

The Fu Foundation School of Engineering and Applied Science is proud to recognize members of the Archimedes Society, which honors lifetime giving of $50,000 or more in cash or pledges to the School. Whether through a lifetime of dedicated philanthropy or a single contribution of extraordinary generosity, Archimedes Society members play an indispensable role in ensuring the success of Columbia Engineering.

Le Marteleur
($1,000,000 or more lifetime giving)

James Albaugh ’74
Armen Alex A. ’83 and Janette
Avanesians P’12CC, ’17CC, ’75SIPA
Emil Bahary ’57BUS, ’62, ’69
Edwin Becker ’56
William ’39, ’40 and Ethel Black
Jeffrey ’32 and Brenda Bleustein
Edward Botwinick ’56CC, ’58
Lauren ’56, ’60 and Margit ’59GS, ’59SOA
Breakeon
Michael Bykhovsky ’83 and Charo
Gonzalez
Oscar Byron ’14

Santiago and Robertina Calatrava P’06,
’07, ’08, ’09, ’17CC
Robert A. W. ’00 and Christine Carleton
Wai ’73 and Glenda Chang P’04CC,
’06GSAPP
Jae-un Chung ’64, ’69
Stanley ’61 and Eileen Dicker
Jeffrey ’58 and Linda Franklin
Ralph French ’42
Z. Y. and Joan Fu
Geoffrey ’82 and Annette Morell ’83BC
Grant P’12CC, ’17CC, ’18CC
Lawrence Gussman ’37CC, ’38, ’39
Robert ’80CC and Margaret Harris
Harry Houck
Percy ’99 and Vida Hudson

Richard ’67 and Janet Hunter P’03CC
Alfred Kadell ’21CC, ’24
Ruth Katzman
Toshirio Kobayashi ’64
Krishna and Vanita Kolluri P’17
Florence Kress
Charles ’36, ’37 and Sarah Lapple
Lee and Margaret Lau P’10, ’11CC
Bernard Lehner ’57
William and Harriet Lembeck ’52CC, ’53
James ’68, ’70, ’76 and Elizabeth Li P’06
Ming Chung Liu and Yan Cheung P’08
Paul Meschler ’64
Stuart Miller
Ann Montgomery
Joseph Moore ’43CC, ’44, ’48
Katherine Prentis Murphy
Gertrude Neumark ’51GSAS
Vikram ’76, ’77, ’80BUS, ’86BUS and Swati
Pandit, P’17CC
Frank Pao and Family
ChatcAli ’82 and Chantanta Piyasombatkul
P’11, ’13
Victor Reenonk ’53CC, ’64, ’58
David ’79 and Brenda Rickey P’08
Morris A. Schapiro ’23CC, ’25
Lauren Wong Sheng ’76 and Kent Sheng
P’15CC
Jean Sheng-Larkin
Alan ’69 and Carol ’69 Silberstein
Seymour Sinderband ’36CC, ’37, ’38
Jerry Suran ’49
Mark Tagliaferrri and Helene Halpern
Tagliaferrri ’83
Savio ’73 and Patty Tung P’01, ’11BUS
Feng-Ming Wang ’89, ’91
James Whitney ’66, ’69
Bing Zhao ’92, ’94

1864 Club
($500,000 to $999,999 lifetime giving)

Michael ’63, ’64 and Elena Abrahams P’03
Sieglinde Behrens
Chia-Kun Chu
David Dibner ’50
Marcel Droz ’30
Kaveapan and Supanavit Eiamsakul
P’17CC, ’18
Marion Finkel ’41CC, ’43
David ’86 and Janice Gu P’18CC
Ralph Haines ’89
Edward ’88 and Linda Heffner P’06CC
Bahram Jalali ’86, ’87, ’89

Jingyue Ju
Anthony and Nora Kurtz P’84GSAS
Frank ’32GSAS and Lorraine A. Leland
’36GSAS Lee
Shelley Ping Liu P’12BUS
Donald Danley MacLaren ’45, ’48
John Perkins Jr.
Patricia Cecily Remmner 45BC
E. Margarette Sammis
George ’55 and Elizabeth Schlosky P’97
Eleanor Schnitzel
Luella Slane
Timothy Tai and Helen Lau P’06
Christian Viros ’75, ’78BUS
Dorothea Marilyn Weitzner
Sai Chung Wang
Mignon Wright
Richard ’82 and Jean Yu P’08CC, ’14CC
Kejiu Zhan
Lixin Zhao P’17

Crossed Hammers Club
($250,000 to $499,999 lifetime giving)

Leslie Abbott ’51
Jacques and Nicoleta Afrigan P’08
Joseph and Johanna Asher ’88BUS
Michael ’90 and Melissa Au
Philip Bonanno ’54CC, ’55, ’64
Frank Buchsbaum ’55, ’57, ’88LAW
John Bult ’59
Emma Dillard Carter
Robert ’71 and Jeanny Chiu P’01CC,
’04CC, ’06CC
Michele and Steven Chulk ’89
Serban ’77 and Victoria ’82DM
Constantinescu
Herbert ’46 and Deborah Cooper
Allan Cytryn ’48, ’75GSAS, P’79CC
Peter del Valle, Jr. ’54CC, ’55
James ’73 and Donna Down P’05CC
Alvin Elliott ’47, ’54
Mustafa Erbilgin ’07, ’09
Vural and Margo Erbilgin P’09
Robert Ford ’94
Gerald Garlant ’75
Andrew ’59 and Nina Gaspar P’05BUS
Wallace Graham ’50
Mehmet Nazif and Zeynep Gunal P’07, ’10, ’12
Ernest Harder 1911
Arthur Hausung ’45, ’47
Michael Hill ’83, ’89
Larry and Stephanie Ho P’16, ’18

George Kavanagh
Hee Kim ’77
Helen Kut
Samuel Lee
Kai-Shui Lo ’82, P’12CC
Darren Manetski ’89
Jay Mehta ’83
Mary Elizabeth Michel
Alexander Mittenthaler 1909
Frank Mock 1913
John and Doris Mustermann
Prapphan and Yuphada Phatraprasit
P’14CC, ’16, ’17
Alessandro ’79, ’82 and Alessandra ’79, ’83
Piol, P’13CC
Vicha and Paradee Poolvarakul P’15, ’17
Katherine Day Reineleitef ’84BC, ’85GSAS
James and Marian Rogers ’43, ’47, ’55
Samuel Ruben
Frederic Rubinstein
Samuel Sheng ’51
Richard 43CC, ’43 and Jean
Steinschneider
Weinbar Sun P’15
Steve Tak-Shu ’80 Tai and Jin-Ching Wu
P’06, ’08
Theodore ’82, ’83 and Jennifer Tsung P’08
Sheldon ’53, ’55 and Mary Jo ’04CC
Weinig
Weiming Wu ’02

Sundial Club
($100,000 to $249,999 lifetime giving)

Sanjiv ’79 and Anju Ahuja P’09
Michael Attard ’63 ’67
Frank Ayer 1911
Robert Bakish ’85 ’89BUS
Richard Baum ’40CC, ’41, ’48
Penelope Beckwith
Bradley Biledeaux ’79
Franklin ’92CC, ’93 and Evelyn Bishop
P’79LAW
Philip Bonanno ’54CC, ’55, ’64
Tullio ’51 and Cecilia Ann Borri P’84BUS
Dinis and Heli Ben Braham P’17CC, ’19
Philip Bucky
David Chang P’14, ’15
Fung-Yeul Chang ’64, ’68
Subir Chatterjee
Wen Chung ’68, P’88, ’89
Rocco Commissio ’71, ’75, P’06
Mary Cromwell
Maud Crusier

Gordana Vunjak-Novakovic, the Mikati Foundation Professor of Biomedical Engineering and Medical Sciences, delivered the third annual Archimedes Society Lecture in the Teatro of Casa Italiana on April 30, 2015. All Archimedes Society members are invited to this special lecture and dinner each year.

2  DONOR REPORT
Columbia Engineering 3
Chiang Chen is a true “rags to riches” story. A largely self-taught technologist and businessman, he turned a small investment in a machine shop into a major international enterprise. Since then, he has used his earned wealth to advance industrial development and various charitable causes throughout the Greater China region. Now, his foundation has made a major gift to support graduate education at the School.

Born in Shandong Province in Eastern China, orphaned young, Dr. Chiang ended up in Hong Kong in 1949. After several years working in mills and factories, he eventually joined the Hong Kong Aircraft Engineering Company. In 1958, he started his own machine shop with only HK$200 (then worth around USD 40). With only four years of formal education, he realized the tremendous opportunities in plastics manufacturing, and he began self-researching the design of plastic injection molding machines.

Dr. Chiang designed the first inline-screw-type plastic injection-molding machine in Hong Kong and was awarded the “New Product Award” in 1966 by the Chinese Manufacturers’ Association of Hong Kong. Since then, the Chen Hsong Group—the company he founded and still chairs—has grown into one of the largest manufacturers of plastic injection machines in the world, with customers in more than 65 countries.

Dr. Chiang believes strongly in repaying society for what one has received and that education is essential to creating a solid foundation for industry in China. In 1990, he donated all his shares in the Chen Hsong Group to establish the Chiang Chen Industrial Charity Foundation (www.ccicf.org.hk/en/). Through numerous activities and funding programs, the Foundation supports training of industrial technologists and professional executives in China. His daughter Lai Yuen is CEO of the Group and an executive director of the Foundation. His son Chi Kin is president of manufacturing for the Group and a director of the Foundation. Both of them continue to work for Dr. Chiang’s vision for the Chen Hsong Group and the Foundation.

Dr. Chiang has strong ties to Columbia University through his family members who are alumni. His daughter Agnes and son-in-law Simon Luk (’77CC, ’78LAWS) are the parents of Adrian Chun Kit Luk (’13). He endowed the Chiang Chen Industrial Charity Fellowship at Columbia, which has been supporting graduate studies in Engineering since 2007. Through his generosity, graduate students are able to freely pursue innovative research and academic collaborations.

“The graduate fellowship from the Chiang Chen Industrial Charity Foundation is a spectacular gift that will have tremendous impact on the lives of generations of exceptionally talented students,” says Dean Mary Boyce.

Dr. Chiang also contributes generously to institutions of higher learning in Hong Kong, mainland China, and internationally. In recognition of his accomplishments and contributions, Queen Elizabeth II named Dr. Chiang to the Order of the British Empire, and the government of Hong Kong awarded him its highest honor, the Grand Bauhinia Medal. Dr. Chiang has been awarded honorary doctorates from the Hong Kong Polytechnic University, the Chinese University of Hong Kong, and the Open University of Hong Kong. He is a founding member of the Court of Hong Kong Polytechnic University and a council member of the University of Hong Kong.
The School cannot thrive without the generosity of Columbia Engineering alumni. Alumni donations provide crucial support for financial aid, student life programs, faculty research, and entrepreneurship. Special thanks go to those alumni who celebrated their reunion in 2014; the School is deeply grateful for the generous support of reunion classes and their participation in class gift campaigns that benefit the Engineering Fund.

### Donors by Class Year

<table>
<thead>
<tr>
<th>Class Year</th>
<th>Donors</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5 = 5–9 years of consecutive giving</td>
<td></td>
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<tr>
<td>L10 = 10–14 years of consecutive giving</td>
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<tr>
<td>L15 = 15–19 years of consecutive giving</td>
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<tr>
<td>L20 = 20–24 years of consecutive giving</td>
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<tr>
<td>L25 = 25–29 years of consecutive giving</td>
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<tr>
<td>L30 = 30–34 years of consecutive giving</td>
<td></td>
</tr>
<tr>
<td>L35 = 35 or more years of consecutive giving</td>
<td></td>
</tr>
</tbody>
</table>

#### CLASS OF 1941
**Donor**
- John B. Pegram Jr. L20

#### CLASS OF 1942
**Donor**
- John M. Freund

#### CLASS OF 1943
**Dean’s Leadership Society**
- Pioneer
  - Immanuel Lichtenstein L20
  - Donate
  - Francis A. Brandt* L30
  - Gerard A. Forlenza L30
  - Joseph Gold
  - Marcel Grauer
  - Stefan A. Ochs
  - Herbert H. Waller L5

**Class of**
- Dean’s Circle
  - Joseph C. Moore
  - Donate
  - Alvin M. Zucker

#### CLASS OF 1944
**Dean’s Leadership Society**
- Dean’s Circle
  - Donate
  - Eugene R. Rogers

#### CLASS OF 1945
**Dean’s Leadership Society**
- Dean’s Circle
  - Donate
  - Donald Danley MacLaren L20
  - Pioneer
  - Eugene R. Rogers

#### CLASS OF 1946
**Dean’s Leadership Society**
- Visionary
  - J. F. Engelberger L20
  - Innovator
  - August E. Saepa* Donors
  - Allan G. Anderson L5
  - Allyn C. Cook L10
  - Harry W. Fritts
  - Bruce A. Hergis
  - John W. Hoopes Jr. L20
  - Harry R. Levey
  - Irene M. Rossett
  - Robert B. Schaefer
  - Marcel Silberman L5

#### CLASS OF 1947
**Donors**
- Harold E. Brandmaier
  - Frederick J. Hanzaulek
  - Harry M. Hartzband L5
  - Karl J. Kliman
  - Leonard Krawitz
  - Howard R. Petrie* L15
  - Irwin R. Schneider* L25
  - Albert A. Sharke L20
  - Donald L. Vives L5

#### CLASS OF 1948
**Dean’s Leadership Society**
- Visionary
  - Reuben Gutfie
  - Vanguard
  - William S. Graff L25
  - Pioneer
  - Henry S. Moss L35

**Donors**
- Richard L. Albert L25
  - Daniel J. Appel L10
  - Lester Berkowitz L15
  - Allen S. Brower L5
  - Allen W. Dawson
  - Robert G. Dean
  - Robert C. Flink
  - Rudolph Foglia
  - Alvin S. Goodman L20
  - Robert Greff L5
  - Harry Hall
  - William M. Klages L10
  - Frederick I. Levine
  - Daniel K. Lowenthal
  - William J. Mahier L15
  - Vincent A. Megna
  - Frederick R. Messner
  - Charles O. Metzger L10
  - Joseph David Milsan L15
  - Carol S. Perrin L10
  - David N. Reps L10
  - Raymond J. Rice*
  - William L. Rubin L5
  - Warren Saunders L5
  - Howard N. Seckler L5
  - Samuel J. Starker L35

#### CLASS OF 1949
**Dean’s Leadership Society**
- Innovator
  - Anna Kazanjian Longobardo L10
  - Guy S. Longobardo L10
  - Ernest F. Ruppe L25
  - Pioneer
  - Axel R. Johnson L30
  - Marion A. O’Connor
  - Vincent J. Sobocinski L35

**Donors**
- Chester T. Delvaule L5
  - George Demitrack L20
  - Robert J. DeSesa
  - Stanley D. Deutsch L5
  - William J. Dobbin L20
  - Albert Frank L5
  - Aaron R. Gilden
  - Bob Green* L15
  - Ernest T. Harper
  - Robert M. Illson L5
  - Milton Kruk L20
  - Howard E. Lustig*
  - Irving Moch Jr. L30
  - Allan M. Newman
  - S. Norman Nowak
  - Charles William Olson
  - Richard Rubin
  - Peter B. Sheridan
  - John J. Sherwin L5
  - Jerry J. Suran L5
  - Harold I. Thropp L25
  - John M. Verdi L30

#### CLASS OF 1950
**Dean’s Leadership Society**
- Vanguard
  - Alfred a. Seymour-Jones L35

**Donors**
- William L. Rubin
  - Raymond J. Rice*
  - Carol S. Perrin
  - Joseph David Milsan
  - Charles O. Metzger
  - Joseph David Milsan L15
  - Carol S. Perrin L10
  - David N. Reps L10
  - Raymond J. Rice*
  - William L. Rubin L5
  - Warren Saunders L5
  - Howard N. Seckler L5
  - Samuel J. Starker L35

#### CLASS OF 1951
**Dean’s Leadership Society**
- Innovator
  - Herman Kibbe L35
  - Tullio J. Borri L5
  - Vanguard
  - Ralph P. White L25

**Pioneer**
- Melvin F. Shaktun L5

#### CLASS OF 1952
**Dean’s Leadership Society**
- Innovator
  - John E. Dolan
  - Norman K. Hansen L5
  - Walter P. Hardee Jr. L5
  - Robert G. Havemeyer
  - William J. Heaney Ill L15
  - Daniel E. Kramer
  - Milton J. Lowenstein L5
  - Stanley Matejka L10
  - Wentworth Field Myers
  - Dominic F. Palazzo L20
  - Robert C. Stamm L5
  - Gene F. Strobel

**Pioneer**
- Louis A. Urban

**Vanguard**
- Seymour Zuberkoff L5

#### CLASS OF 1953
**Dean’s Leadership Society**
- Innovator
  - Henry L. Parsons L20
  - Vanguard
  - Attiio L. Bisio L5
  - Donald E. Ross

**Pioneer**
- Glenn N. Danziger
  - J. F. Engelberger
  - L. Donor
  - George L. Kaysy L5
  - Alfred A. Seymour-Jones L35

**Donors**
- Peter Cartwright
  - David N. David
  - Otto Decker
  - Harry Dombran L20
  - Bennett Feinsilber

**Dean’s Leadership Society**
- Bernard Friedland
  - Michael H. Gerner L5

**Class of**
- Armin A. Hagen L20
  - James F. Hoebel
  - Edward J. Kaliski

**Vanguard**
- Marvin Lazar L20

**Vanguard**
- William Lembeck L5

**Innovator**
- Jacques I. Sliesenger L20

**Class of**
- Richard S. Eastman
  - Filippo B. Galluppi L5
  - Fred S. Kann L5
  - Carl H. Muenzel

**Vanguard**
- Robert A. Signorelli
  - Marshall D. Smith L20
  - Leonard E. Smollen L10

**Pioneer**
- Werner Uhrich L30
  - Peter Vigild L5

**Dean’s Circle**
- Marvin Weiss
  - Carl H. Wistman

**Class of**
- Theodore J. Hoffberg
Columbia Engineering Fund

Each year, the Engineering Fund provides a critical source of operating revenue for the School. The endowment provides additional revenue, but it is restricted primarily to specific programs. The Engineering Fund, therefore, is an essential source of current-use revenue that allows the School to respond to unforeseen challenges, seize new opportunities, and advance the School’s mission.

$4.038 million

During fiscal year 2015, more than 4,200 alumni, parents, students, and friends contributed nearly $4.038 million to the Engineering Fund. These funds went to the School’s highest priorities: financial aid, faculty research and support, entrepreneurship, and student life.

For more information about the Engineering Fund, please contact:

Jill Galas Hickey
Director of Annual Giving
212-854-4474
jg426@columbia.edu

To ConTriBute, Please VisiT WWW.ENGINEERING.COLUMBIA.EDU/GIVEONLINE.
Senior students at the Class of 2015’s Ties & Scarves celebration
## Dean’s Leadership Society

To acknowledge the indispensable role of current-use gifts, the School established the Dean’s Leadership Society to recognize donors who give $1,000 or more cumulatively during one fiscal year to the Engineering Fund.

<table>
<thead>
<tr>
<th>Donor Level</th>
<th>Minimum Donation</th>
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<tbody>
<tr>
<td>Dean’s Circle</td>
<td>$25,000 or more</td>
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<tr>
<td>Visionary</td>
<td>$10,000 to $24,999</td>
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<tr>
<td>Innovator</td>
<td>$5,000 to $9,999</td>
</tr>
<tr>
<td>Vanguard</td>
<td>$2,500 to $4,999</td>
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### RECENT ALUMNI MEMBERSHIP LEVELS (PIONEER)

<table>
<thead>
<tr>
<th>Year</th>
<th>Level</th>
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<td>2005</td>
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<td>2006</td>
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<tr>
<td>2013</td>
<td>Class of 1963</td>
<td>$200</td>
</tr>
</tbody>
</table>

### CLASS OF 1962

**Dean’s Leadership Society**

- **Dean’s Circle**
  - Emil S. Bahary L5
  - George W. Dean L5
  - Myron F. Goodman L15
  - Hillel J. Hoffman L5
  - Richard E. Klein L5
  - Stephen M. Knapp L5
  - Thor A. Larsen L5
  - Andrew S. Levine L5
  - Richard P. Massey L5
  - Odeli Ozzer L5
  - Justin C. Park Jr. L25
  - Francis J. Patti L5
  - Bill Peters L5
  - Karl F. Provost L5
  - Walter A. Read L5
  - Anil D. Shah L5
  - Joseph J. Sheveck L5
  - Myron B. Silberman L5
  - Yen T. Tan L5
  - Fred H. Teger L5
  - Edmond J. Vinarub L10
  - C. Dennis Weiss L5
  - James W. Workman L5
  - Richard B. Zang L5

**Vanguard**

- Michael J. Attardo L10
- Edvin Auzenbergs L10
- Robert H. Cline L5
- Harry Gong L20
- Edward H. Sonn L5

**Donors**

- Russell C. Baccaglini L20
- G. Richard Backus L20
- Neil E. Berger L5
- Charles F. Cole Jr. L35
- William J. Dolan L35
- Daniel P. Dubin L5
- William DuBrock L5
- Richard M. Elkin L5
- Marvin M. Fishman L20
- William F. Hale L5
- Richard Hansauer L10
- Mark N. Herman L10
- Katsusuke Ishiguro L5
- Manuel R. Jamison L5
- Drexler A. Jeannette L5
- Frederick P. Kaiser L15
- Robert F. Leheny L5
- Stanley A. Leshaw L30
- Steven F. Miller L5
- Murray Mohl L5
- William M. Newell Jr. L5
- Stanley R. Notkin L5
- Albert R. Peraino L20
- Robert A. Plant L10
- Philip J. Press L25
- Stephen R. Richardson L25
- Stephen S. Rosen L5
- Gabriel A. Rossica L20
- Peter G. Shragor L5
- Mark A. Spivack L30
- Jerome A. Stember L25
- Thomas M. Stuart L15
- Sunder S. Thakur L5
- J. Richard Vyclo L30
- Herbert B. Weinblatt L10
- Sam Weissman L5
- Chi-Hwu Wu L5

### CLASS OF 1963

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Former NASA astronaut and current Mechanical Engineering Professor of Professional Practice Michael Massimino ’84 addressing alumni at Reunion Weekend 2015.
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Ribbon cutting ceremony for the new Carleton Commons
THE BEST INVESTMENT: HORACE J. MENG MS’95

“Attending Columbia Engineering School was the best investment in my life,” says serial entrepreneur Horace J. Meng. “I treasure every moment at the Engineering School.”

Meng, who received his MS in electrical engineering from the School in 1995, recalls being “completely awed” during his student orientation by Charles Batchelor Professor Emeritus of Electrical Engineering Mischa Schwartz. “Imagine yourself sitting on the train and getting news and video delivered to your portable computer via high speed wireless network,” Schwartz told the students. “At that time, a 2400 baud modem was state of the art,” Meng says. “The futuristic picture that Professor Schwartz painted was way beyond my imagination.”

“I knew I was in the right place at the right time,” he says.

Meng credits Columbia with helping shape his future. “At Columbia Engineering, I found my true research passion in the field of digital image processing after I took the Topics in Signal Processing class taught by [Richard Dicker Professor of Electrical Engineering] Shih-Fu Chang, who is a pioneer in multimedia signal processing,” he says.

Columbia also helped shape his first venture. With a research fellow from the Columbia Business School’s Institute for Tele-Information, Meng co-founded LinkShare Corporation, a leading provider of full-service online marketing solutions. He served as chief technology officer, managing all aspects of the LinkShare technology platform from software development and system operations to high-speed transactional systems and large-scale analytical systems.

“I was very fortunate to take [Professor of Computer Science Henning Schulzrinne’s] Advanced Internet Services class during the dawn of the Internet revolution,” he says. “The knowledge that I learned from the course was instrumental when I was building the technology platform at LinkShare shortly afterward.” LinkShare was acquired by Rakuten for $425 million in 2005.

After a break to spend more time with his family and develop his artistic and musical interests, Meng founded ToVide, which uses a cloud-based photo management system that Meng developed to aggregate end users’ photos from multiple social media sites, smart-tag them, and share them on other social media sites. Recently, Meng co-founded and became CEO of Axon Image Inc. based in Palo Alto, California. Axon Image is assuming the technology and IP of ToVide to develop deep learning technologies and applications for image and video.

Today, Meng actively mentors Columbia students as a member of the School’s Entrepreneurship Advisory Board. He notes that “almost every final project [that] came out from Professor Schulzrinne’s class could be launched as a start-up had there been the kind of entrepreneurship ecosystem that we have at Columbia Engineering today.”

“I contribute to Columbia Engineering because I like to help students to realize their inner entrepreneur,” he says.
Dean Mary Boyce passed out beanies to the members of the Class of 2018 before the Academic Assembly on August 26, 2014.
Recent alumni from Engineering and the College gathered at StageForty8 in Manhattan for a young alumni party during Reunion Weekend 2015.

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Columbia Engineering 21
It was a conversation with Dean Mary Boyce that sparked Kittu Kolluri’s interest in Ignition Grants. “We were talking about how you inculcate entrepreneurial culture on campus,” he says. Kolluri had supported entrepreneurial programs at his alma mater, the Indian Institute of Technology in Madras, so he fully understood the idea of “finding projects out of the community.” By the end of their conversation, Kolluri had volunteered to fund the launch of the School’s Ignition Grants program, which provides cash grants to help students who are starting new ventures.

Kolluri sees immense value to such programs in supporting true innovation. Right now, he says, “there’s a lot of capital chasing low-hanging fruit.” But this is “preventing hard problem solving.” He says there can be “no innovation without the fundamental research going on at university campuses.”

Over the last two years, 24 student-led ventures have received Ignition Grants. Kolluri says there is “very good work coming out of Ignition Grants,” but he brings a venture capitalist’s realism to the program. There is “going to be high percentage of strikeouts,” he says, though “it only takes one or two hits” to have a huge impact, noting that “companies like Google got started on college campuses.”

Individual Engineering students or teams with at least one Engineering student are eligible to apply. Students apply online, with the School’s Entrepreneurship Advisory Board reviewing applications and making grant recommendations to the dean.

Kolluri earned a BTech in mechanical engineering from Indian Institute of Technology, Madras, India, and an MS in operations research from the State University of New York, Buffalo. Each institution has honored him with its distinguished alumnus award.

Kolluri and his wife, Vanita, are members of the Columbia Engineering Parents Council. Their son Ishaan is a member of the Class of 2017, and they have a daughter who is in high school. “The family is delighted to have our son attend Columbia,” he says, noting the School offers a “nice balance between academics and extracurricular activities.”
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Alfred Tan from Matthew Jinu Kim ’15
Peihong Tang from Guochun Xie
Ramis Wadood from Anan Suleiman ’14
Ho Wai Hing from Ka Chun Ma ’07, ’09

In memory of...
Nivarthi Balakrishna from Phani Bhushan Kumar
Nivarthi ’10
Hanni Baumgarten from David Lee Sherman ’80’CC, ’P15
Mr. Stephen Birch ’37 from Stephen & Mary Birch Foundation
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My family members who died in the Holocaust in Ukraine from Stanislav D. Maydan ’93
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Nick Tanelli from Dennis Paul Hoglin ’90
Ralph Tekel from Billie Elisa ’76
John J. West from Margarida P. West ’50’BC, ’69’GAS, ’70’CC
Souhaila Yassir from Walid Khaled Yassir ’88
Alban Yee from Lester Lee
Columbia Engineering seniors showcased their capstone design projects at the School’s second annual Senior Design expo, held May 7 in Roone Arledge Auditorium. Student projects and prototypes represented all nine departments, ranging from a robotic air hockey player, to noise-dampening headphones for soldiers, to a plan for a soccer stadium that can withstand gale force winds and earthquakes.

“These projects provide the students with the opportunity to go through the entire design cycle. Students learn to work with one another in a team environment, they learn the constraints of time management, the realities of actually trying to build something and make it work,” said Dean Mary Boyce.

“Whether the project is whimsical or serious, all represent the fundamentals of an engineering approach to problem solving and all represent a solution,” she said.

The expo this year was underwritten by Turner Construction, the international construction services company and the largest general contractor in the country. Turner is a leader in all major market segments, including health care, education, commercial, sports, aviation, pharmaceutical, retail, and green building.

In a reception before the expo, Turner president and CEO Peter Davoren, a member of the School’s Board of Visitors, said the students coming out of Columbia are well rounded and interpersonally skilled—critical qualities needed in qualified engineers.

“The quality of the education here is terrific,” said Davoren. “We’re going to continue to recruit, and in order to recruit we have to give back too, so we want to participate in as many programs as we can. It’s a win-win.”

Inspired by Murphy beds and pop-up books, Rambunctious Solutions, a team from the mechanical engineering department, developed a collapsible table built with a novel material the team synthesized and tested over the past year.

“We started thinking about bringing pop-ups to the human scale for microapartment furniture, and then we went crazy,” said Zachery Wills. “We did our due scientific diligence and worked out the mathematical theory and physics of every component.”

Normcore developed a robotic bass guitar with silicon fingers to pluck strings in carefully calibrated natural fashion, while Saximus created a robotic saxophone player to mimic human performance and Nepollo created an intricate glass harp.

Teams from civil engineering designed resilient and cost-effective structures including novel stadiums, a bridge, and a multipurpose artistic space for dense urban environments.

“Bringing art and innovation to the urban landscape was about a lot more than a building looking pretty,” said Kathilee Kenlock of KNAAK, who designed a three-story building encompassing workspaces for music and visual arts as well as a museum facility. “It took some major calculations.”

Other projects included improved colostomy bags (biomedical engineering), standardizing semiconductor nanoparticles (electrical engineering), exploring the optical properties of graphene for photonic applications (applied physics and applied mathematics), optimizing the delivery schedule of agricultural seed and fertilizer in rural Africa (industrial engineering and operations research), and evaluating plans to restore part of the Bronx River for recreation (earth and environmental engineering).

“My team wanted to create something whimsical that people could play with,” said electrical engineering major Shanny Li, who developed a remotely controlled LED module for turning buildings into interactive art displays. “Engineering is fun, and we want to share that with the rest of campus.”

To see a video of the expo, please visit: http://engineering.columbia.edu/senior-design-expo.

TURNER CONSTRUCTION SUPPORTS SECOND SENIOR DESIGN EXPO
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Columbia Engineering thanks the School’s many friends who made donations during fiscal year 2015.

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Rebecca M. Wolnek
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Robin Zietz
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Anonymous

The 1754 Society

Some of the most meaningful gifts that individuals make during their lifetimes involve planned giving. Named for the founding of King’s College, the 1754 Society honors and recognizes alumni, parents, and friends who have made plans for Columbia through trust, estate, or other future gifts.

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Fung-Yuel Chang ’64, ’68
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Victoria Constantinescu ’82
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Gary H. Elzweig ’77
Jeffrey M. ’88 and Linda Franklin
Charles V. ’54, ’55, ’61 and
Margaret C. Freiman
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Frank ’99 and Megumi ’99
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James ’43, ’47, ’55, ’55, ’55
Columbia University
Director, Planned Giving
Peggy Maher
212-854-7873
jm3784@columbia.edu
If you have included
Columbia Engineering in
your estate plans but are
not included on this list,
please contact:
Peggy Maher
Senior Associate Dean for
Advancement
212-854-5981
mmm2136@columbia.edu

Current-use gifts of cash or securities are only one
type of giving. Planned gifts—including bequests, retirement plan beneficiary designations, charitable gift annuities, charitable remainder trusts, donor-advised funds—help ensure the School’s long-term vitality.

To learn more, please contact:
Jacquelyn Morton
Director, Planned Giving
Columbia University
212-854-7873
jm3784@columbia.edu

If you have included
Columbia Engineering in
your estate plans but are
not included on this list,
please contact:
Peggy Maher
Senior Associate Dean for
Advancement
212-854-5981
mmm2136@columbia.edu

Unrelated Item
Corporations and Foundations

Corporations and foundations play a vital role at Columbia Engineering, providing grants and gifts that support faculty research, scholarships and fellowships, and entrepreneurship as well as matching funds for others’ contributions to the School.

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Students and Young Alumni at Homecoming
Volunteer Leaders

Board of Visitors

The Board of Visitors is Columbia Engineering’s preeminent alumni advisory body, assisting the Trustees, the faculty, and the dean in advancing the School. The Board, which meets twice per year, serves a vital advisory role to the dean, providing feedback regarding academic, alumni, and student affairs. Board members take a leadership role in creating and providing financial support for the School.

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Engineering Development Council members focus on raising support for the Engineering Fund. They encourage their fellow alumni to support the School by becoming donors to the School at Dean’s Leadership Society levels.

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Victor Yan ’89, ’91

CEAA Board of Managers

An independent corporation, the Columbia Engineering Alumni Association, or CEAA, fosters and deepens the bonds of fellowship among alumni, faculty, and students. Every graduate of the School is automatically a member, as are undergrduates once they begin the second semester of their senior year. The Board of Managers provides the leadership, directing the organization’s activities.

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CEYA Board

Columbia Engineering Young Alumni, or CEYA, strengthens the community of recent graduates, aids in the transition from student to alumnus/a, promotes interactions between alumni and current students, encourages interaction among all Columbia University young alumni, increases communications between the School and its alumni, and seeks to increase participation in Engineering School events.

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Parents Council

The Parents Council brings together parents who have agreed to serve as ambassadors for the School, to be liaisons between the dean and the parent body as a whole, and to advance the School’s goals and vision through support of the Engineering Parents Fund. We thank them for their dedication and leadership.

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Entrepreneurship Advisory Board

Composed of entrepreneurs from diverse professions, the Entrepreneurship Advisory Board (EAB) consults with the dean on all matters related to the School's entrepreneurship programs. The EAB not only engages young entrepreneurs but also identifies and recruits individuals and organizations to obtain funding or internships.

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Steven Chulik ’89
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Drew Gilbert ’91
Peter Hsing ’90
John Koger ’86
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Samuel and Sheila Woodhouse P’18
Thaddeus Woods and Deanna Armstrong P’15
Tarik and Bilgehan Yilmaz P’16
Brian and Katherine Young P’17
Tim and Cc Yu P’14
Lixin Zhao and Mingbo Zhan P’17
Reid Ellison ’08 learned early on the power of networking. He landed his first job, as a research analyst at William D. Witter, a privately owned investment management firm, before he graduated. “I got hold of the opportunity through another Columbia student,” he says.

Next, he joined Goldman Sachs, becoming a vice president managing the performing mortgage loan trading book and new-issue residential securitization program. In 2015, Ellison joined SG Capital Partners, a Connecticut-based fund focused on mortgage credit-related investments, as a portfolio manager.

Ellison studied mechanical engineering at the School, which has proved good preparation for his current duties. Engineering, he says, “provides a set of analytical tools” that involves “taking complex problems and breaking them down.” This “skill set of how to look at complex problems” is exactly what is needed when evaluating financial investments in his current position.

One of his fondest memories is “getting a lot of different experiences out of Columbia.” Ellison was president of Formula SAE, also known as Knickerbocker Motorsports. “It was one of my favorite parts of doing mechanical engineering,” he says, “trying to turn a hunk of metal into a car.” He also was vice president of the American Society of Mechanical Engineers Chapter, and a founding member of the Columbia University Surf Team, traveling with teammates to Far Rockaway to catch waves.

With four other Engineering students, Ellison holds a patent for an automatic drum tuner, which was the group’s senior design project. The device is analogous to an automatic guitar tuner, only more complex because a drum has a series of lugs along the top and bottom that have to be tightened or loosened automatically to achieve the desired sound. Columbia Technology Ventures, the University’s tech transfer office, is trying to find a manufacturer to license the patent.

Since graduation, Ellison has “stayed really close” with his friends from Columbia and with the School. He interviews prospective students through the Alumni Representative Committee and co-chaired his fifth-year reunion. He is a member of the Engineering Development Committee, which engages alumni to encourage other alumni to donate to the School, and a board member of Columbia Engineering Young Alumni, or CEYA.

A major focus is helping current students prepare for careers. At CEYA, he is “most focused on career development,” helping students with soft skills, interviewing, “making connections to the right people.” He is a regular participant at Alumni Career Night, Just Deserts, alumni mock interviews, and other Columbia alumni events where alumni network and mentor students.

For Ellison, the reason to give back is simple. “I have no doubt that Columbia profoundly changed my life,” he says. “I don’t know if you can fully pay back that debt.”
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