summer 2010 • vol. 22 • no. 2 CASE aumnus



THE MAGAZINE OF THE CASE ALUMNI ASSOCIATION

DARNER '22 (1958/1959) * DAN C. CRANE

THOMAS C. LITZLER '53, G'62 (2008/2009) * KENNETH A. LOPARO G'77 (2009/2010)

in this issue:

Celebrating 125 Years of Leadership, Fellowship & Dedication to Learning

Structures Laboratory Dedication Highlights from the 125th Anniversary Symposium

PRESIDENT'S MESSAGE



Dear Fellow Alumni/ae:

The events of the 125th year celebration of the Case Alumni Association began with a symposium entitled: "From Education to Innovation, the Case Entrepreneurial Experience" held on the Case Western Reserve University campus on May 13, 2010. This event featured a selection of Case graduates that exemplify the entrepreneurial spirit discussing achievements and challenges they have faced in their careers. The symposium, panel and keynote talks were excellent, and very well received. Presentations and video recordings of these talks will be available on the CAA website.

The All Classes Banquet was held on May 14, 2010, and included recognition of the classes in attendance, an awards ceremony, and a special announcement. A year in the making, we announced that the Case Alumni Association will be moving back to the Case Western Reserve University campus in fall 2010, and will be taking residence in Tomlinson Hall. Tomlinson Hall is one of the locations that the CAA had occupied on the CWRU campus, and it is good to be coming back home! I am very appreciative of the cooperation of the CWRU leadership, with a special thanks to President Barbara Snyder for her encouragement, guidance and understanding throughout the process.

The move back to campus will further strengthen the partnership between the CAA and CWRU and will provide additional benefits to alumni/ae and to the faculty, students and educational programs of the Case School of Engineering and the departments of science and mathematics at CWRU. At the reunion banquet, **Al Gordon '42** announced that he will be making a leadership gift to the CAA to help support the move back to campus. I am personally very grateful to Al for his dedication and commitment to the CAA and hope that other alumni/ae will follow his example. More details on the move back to campus will be available on the CAA website and the CAA magazine in the months to come.

It is usual at this time of the year for the CAA President to be passing the gavel to a successor. However, the CAA Executive Committee put forth a recommendation to extend the terms of the CAA Officers (president, first and second vice presidents) from one-year terms to two-year terms to improve the continuity and effectiveness of the CAA leadership. CAA Council has approved this recommendation, and I have agreed to continue to serve you as the CAA President for 2010-11. As always, I welcome your suggestions and input, and hope that you will be able to participate in some alumni events in the coming year.

Thank you for your continued support.

Sincerely,

Kenneth a. Koparo

Kenneth A. Loparo PhD'77 2009-2010 President Case Alumni Association

The Case Alumni Association serves the interests of more than 20,000 alumni of the Case School of Applied Science, Case Institute of Technology, and the Case School of Engineering. Its mission is to serve and advance the interests of the Case School of Engineering, the math and applied sciences of Case Western Reserve University, its alumni, and its students through a strategic focus on fund raising, institutional leadership, responsive services, public relations, and student programs.

Established in 1885, by the first five graduates of the Case School of Applied Science, the Case Alumni Association is the oldest independent alumni association of engineering and applied science graduates in the nation.

The *Case Alumnus* is a publication of the Case Alumni Association, Inc. a 501(c)3 public charity under the IRS code.

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Case alumnus

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SUMMER 2010 vol. 22 | no. 2

TO SERVE AND ADVANCE THE INTERESTS OF THE CASE SCHOOL OF ENGINEERING, THE MATH AND APPLIED SCIENCES OF CASE WESTERN RESERVE UNIVERSITY AND ITS ALUMNI AND STUDENTS.



visit us online for the latest news & events! www.casealum.org

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On the cover: A listing of the past presidents of Case Alumni Association, representing a 125-year legacy of leadership. The Case Alumni Association was established in 1885 by the first five graduates of the Case School of Applied Science. It is the oldest independent alumni association of engineering and applied science graduates in the nation.

CORRESPONDENCE CORNER

Dear Editor:

The *Case Alumnus* magazine is too important to convert to electronic [format]. I enjoy the feel and the look and the content of the magazine, and then keep it on the coffee table until the next issue comes out.

> – Dale A. Johnson '54 Columbus, OH

Let's Hear from You!

Please Write! We welcome your letters and comments about the contents of the magazine, as well as all aspects of the Case alumni experience. Give us your feedback - send vour comments to the editor at Mrosko@cox.net. We appreciate your interest and look forward to hearing from you.

Editor's Note: We've been publishing Case Alumnus since 1921 and have no intention of stopping. We offer alumni readers the option of getting the electronic version instead of receiving a copy in the mail. The hard copy of the magazine is not going away.

Dear Members of the CAA: Thank you for your support of our event, "Introduce a Girl to Engineering Day." The event went well—around 75 middle school-age girls from schools around Cleveland came and toured various engineering labs, participating in activities such as building stable boats out of foil and steering a remotecontrolled car with muscle twitches. The girls all received eye-opening experiences and got excited about the possibilities within the engineering fields. The shirts were also a huge hit!

We appreciate your support of the cause and especially an event that we so strongly believe in and promote. It was lovely to meet you all at the meeting, and I hope to continue relations into the future.

– Avneet Singh Secretary, Women in Science and Engineering Roundtable

Dear CAA: Thank you so much for giving me a scholarship. This is equivalent to over a whole week's worth of pay, so that really puts it in perspective. When I graduate, it will be nice to finally be able to give back to the CAA. Thanks again for this generous scholarship. God Bless.

> – Keith Lupton Co-op Student

Linked in.





Join the CAA's online network. Stay connected with other alumni and keep current with CAA news, job postings, and conversations. Let us know what you think, join this month's discussion on LinkedIn:

Do you like the idea of moving Case Alumni Association reunions (traditionally held in the spring) to coincide with other Case Western Reserve University reunions (held in the autumn)?

Dear CAA:

We would like to personally thank you for the generous scholarship you recently awarded our son, Ross. He was so excited after the awards dinner that he actually "called" us (not a text). Ross absolutely loves Case and this will really help him to complete his quality education at Case and reduce the amount of debt for all of us.

Once again, your generosity is greatly appreciated.

– Rick and Lori Carnahan

Dear CAA:

I am writing to thank you very much for your gracious donation that is supporting my education. I am a current junior biomedical engineer, and as one of five children, I greatly appreciate the financial help. I am currently on co-op at Medtronic in Minneapolis, MN. This opportunity is helping me realize how much I truly enjoy the field I am in, and my eagerness to continue learning and expanding my knowledge and opportunities is constantly growing. So thank you for supporting my educational endeavors to allow me to become the best engineer I can.

– Kristin Hageman Case Western Class of 2011

CASE CLIPS – News from Around Campus



CASE ALUMNI ASSOCIATION TO MOVE BACK TO CAMPUS

At this year's All Classes Reunion banquet marking the 125th anniversary of the Case Alumni Association, former three-time CAA president **Al Gordon '42** and Case Western Reserve University President Barbara R. Snyder announced that the CAA will move back to campus. The CAA office will once again occupy space in Tomlinson Hall, where it was housed from 1948 to 1978. The CAA moved off campus to its current home on Chester Avenue in 2005.

CASE ALUMNI ASSOCIATION SPONSORS STUDENT-BASED ENTREPRENEURIAL PROGRAM DURING NATIONAL ENGINEER'S WEEK

During February, the CAA sponsored program options targeted to students that were inspired by the 125th Anniversary Symposium's focus on entrepreneurship. Marc Canter, CEO of Broadband Mechanics and founder of Macromind (now Macromedia/ Adobe), developers of Flash software, gave an outstanding presentation on the entrepreneurial way of thinking during National Engineer's Week. He shared his background and how going through life he preferred to "zig" while everyone else was "zagging." Canter spoke of his current research at Case Western Reserve University, The Institute for Management and Engineering (TiME),



and his exciting new venture with Digital City. He gave the students the "Top 10 Characteristics of Entrepreneurship" and finished with a Q&A, of which the students certainly took advantage.

TINKHAM VEALE UNIVERSITY CENTER ANNOUNCED

The University received a \$20 million commitment from the Veale Foundation for a new university center. The center, which will be located at the corner of East Boulevard and Bellflower Road near Severance Hall, will be named after Tinkham Veale II, a 1937 graduate in mechanical engineering from the Case Institute of Technology. Veale, donor and a trustee of the Veale Foundation of Gates Mills, Ohio, is the chairman and largest shareholder of HTV Industries, Inc., a private holding company with diversified business holdings including manufacturing, distribution, technology and banking.

The gift will be used to create a place where students, faculty and staff can come together for classes, meetings, meals and more, said President Barbara R. Snyder in a statement announcing the plans. "Tink Veale's generosity will allow us to transform a long-awaited concept into a meaningful reality for our community," she said.



NOTES FROM NORD 500



Dear Alumni and Friends:

Join me in congratulating the Case Alumni Association for 125 years of service to our outstanding alumni and to our mission of excellence in engineering education and research. We just finished a phenomenal weekend of celebration capped off by reunion and commencement.

As part of the festivities, I introduced two of our many exceptional students—Caitlin Powell and David Ramsay—to our Case Dean's Society. The Case Dean's Society is comprised of the school's most loyal supporters who make annual contributions of \$1,000 or more to the CAA's Case Fund® or the school's Annual Fund.

Caitlin, from Cranberry, Pa., is a junior in the Department of Biomedical Engineering who recently won a Goldwater Scholarship. Sponsored by the U.S. government, the scholarship program named in honor of U.S. Senator Barry Goldwater recognizes outstanding potential and commitment to excellence in science, engineering and mathematics.

Caitlin conducts research in Eben Alsberg's lab on alternative cancer therapies using drug delivery and tissue engineering technologies. She plans to get her MD and her PhD and will use the scholarship for next year's tuition.

When Caitlin isn't in the lab, you can find her on the stage. She's currently the musical director of Solstice's Women A Cappella, the university's by-audition women's a cappella group. She's also active in Case Footlighters, which puts on student-run musicals, and is a member of the four honor societies.

David, an avid electrical guitar player from the D.C. area, was graduating that weekend with a double major in electrical engineering and music as well as a minor in biomedical engineering. He plans to combine his passion for music with his engineering know-how to help disabled people play the musical synthesizer.

This fall David will be conducting research at the Dublin Institute of Technology as a Fulbright Scholar. The prestigious Fulbright program is supported by the State Department to promote international understanding and research.

In Dublin, David plans to adapt the infared cameras found in the Wii game controls that track motion to create an interface to make musical expression accessible for the disabled. Before he heads off to Ireland, he'll spend his summer in Boston working at the Bose Corporation.

Alumni can rejoice in the many accomplishments of all our students. However, David and Caitlin offer an additional source of pride in CAA's 125th anniversary year. Both have received scholarship support from the Case Alumni Association. Both also embody the theme for the CAA's anniversary: one generation helping the next.

Congratulations again to the CAA and to David and Caitlin.

Norman C. Tien Dean & Nord Professor of Engineering Ohio Eminent Scholar, Physics



The Case Family residence, just east of Public Square on Rockwell Street in downtown Cleveland, was the original site of Case School of Applied Science. Photo: Cleveland Plain Dealer.



CASE ALUMNI ASSOCIATION CELEBRATES 125 YEARS – A Nostalgic Look Back, Strong Expectations Ahead

In 1986, the Case Alumni Association published a directory of alumni members as part of its 106-year commitment to "quality in science, engineering and management education." The directory demonstrated the diversity of those who have shared the "Case Experience" as the Association was about to begin its second century of service to the university.

Roger H. Cerne '63, then-Executive Manager of the Case Alumni Association, wrote, "The quality and worth of any college are best illustrated by the achievements of its alumni." Twenty-four years later, Cerne continues his commitment to the association and the university, along with thousands of alumni who share their time, money and dedicated service in continuing the extraordinary educational experience that is "Case."

In this issue of *Case Alumnus*, which published its first edition in 1921, we take a look back at how the CAA came to exist, how the Case Fund® was established and continues to play a significant role in bettering the student and alumni experience at Case, as well as some of the CAA's most illustrious forefathers who helped mold and shape the organization throughout many glorious, as well as tumultuous, years.

THE HUMBLE BEGINNINGS



The Case Alumni Association is the oldest autonomous science and engineering alumni organization in the United States. On June 15, 1885, five young men met at the Case Homestead on Rockwell Avenue near Public Square in Cleveland to discuss their future. Each would be going off to different careers and locations, but they shared one common bond; they were the first five graduates of Case School of Applied Science.

It was a momentous occasion; how could these five men provide a mechanism to keep their friendships alive and also to perpetuate their brand new alma mater? Their response: to form an independent association of former students and graduates of Case School of Applied Science to foster fellowship among alumni and support to the institution. Thus, the Case Alumni Association was born, an organization for alumni, administered by alumni and providing service to the college.

Albert W. Smith '87 served as unpaid secretary of the Case Alumni Association as part of a volunteer staff from 1885 to 1920.

JUNE 1885 – FIRST GRADUATING CLASS OF THE CASE SCHOOL OF APPLIED SCIENCE AND THE FOUNDERS OF CASE ALUMNI ASSOCIATION

Henry G. Abbey Louis F. Brown Fred H. Kindle Joseph B. Waud Daniel B. Warmington – First Official President, 1997-98

FIRST CASE FACULTY

John N. Stockwell - Science, astronomy and mathematics

John Eisenmann – Applied science in engineering studies

J.W.C. Duerr – German

C. Vaillant – French

Albert A. Michelson – Physics

Dr. Cady Staley – Selected as first president of Case in 1885



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BY THE NUMBERS . . .

\$16,271,000 granted in scholarships from endowment since 1974
200 scholarship funds including 38 special purpose funds created since 1974
\$43 million in endowments plus \$5,000,000 in restricted funds, trusts and annuities
11,000 students have received support from CAA

FINANCES & FUNDRAISING

The Case Fund® was officially established in 1942 and continues today as the annual giving program through the Case Alumni Association. Growth of the fund over the years is tied to many factors including the establishment of fundraising priorities, special matching gift fund efforts, and a strong organization of class agents and the efforts of those serving on the council of the Case Alumni Association. The Case Fund is managed by the Case Fund Board, which facilitates solicitation and distribution of funds, working closely with the deans and other offices of the university.



The Case Alumni Association Endowment Fund was created in the early '70s as a means for alumnidirected contributions including named scholarship funds, special-purpose, student loan, instructional equipment, departmental support and unrestricted operating funds. Today, the Case Alumni Foundation (CAF) is worth more than \$43 million, plus an additional \$5 million accumulated in restricted funds, trusts and annuities.

The awarding of scholarship money has been a priority for the Case Alumni Association for nearly as long as it has been in existence. Since 1974, more than \$16 million was granted in the form of scholarships from endowment alone. More than \$5 million more has been awarded from annual giving.

Jack Flynn '51 G'53 G'56 currently serves as the Chairman of the 125th Celebration Case Fund. Flynn is a past CAA Gold Medal Award winner, Case Advisory Board member and past chair of the "Case Promise Campaign."



KEY ACTIVITIES & PROGRAMS

The Case Alumni Association operated with a volunteer staff, made up of both alumni and faculty members serving in unpaid positions, for the first several decades of its existence. The primary event of the year was the annual reunion and income and expenses were relatively small and manageable.

Beginning in 1920, the CAA hired its first salaried staff member, Ray H. Finger, who was designated alumni manager. Member dues – \$5 a year – were initiated at that time. That structure was eliminated in the early 1940's, as dues were replaced by the Case Fund.

Most of the programs established through the years were centered on student-alumni relations designed to engage alumni after they leave the university. Some of the earliest CAA activities and programs included:

Alumni news – The *Integral* was the first publication to carry alumni news in 1893. In 1901, the CAA published the *Bulletin of the Alumni Association*, which was succeeded by the *Case Alumnus* magazine in 1921. The magazine has since received many awards for excellence over the years.



Alumni organizations – The CAA established the Case Clubs as a means for alumni to stay in touch, even those outside the immediate campus location. It brings those with similar interests and backgrounds a chance to meet socially, reunite old friendships while establishing new ones as well.



The CAA office 1963

Awards & recognition – In recognition of alumni, trustee, faculty, staff and friends' achievements, the CAA established first the Meritorious Service Awards. In 1966, the CAA established its Gold Medal Award in honor of two past Nobel Laureates and first recipients of the award, **Polykarp Kusch '31** and **Donald A**. **Glaser '46**. This honor acknowledges alumni who have made major contributions in the sciences, engineering and management. Additional awards established over

> "The only publicity Case needs is the status of its alumni." ~ Quote by Eckstein Case, a cousin of Leonard Case, Jr., who served as secretary and treasurer of the college from 1887 to 1937.



the years include the Samuel Givelber '23 Fellowship Award, John L. Fuller '36 Award, Silver Bowl Award and Young Leadership Award.



Roger Cerne '63 joined the Case Alumni Association as director of the Case Fund® in 1974 and later became Executive Manager of the association.

Reunion – Along with the "Case Experience" comes a strong sense of class identity and alumni ties to their alma mater. The long-established tradition of getting together for the all-class reunion, held annually in Cleveland each spring, continues to grow stronger each year. The reunion now recognizes graduating class events every fifth year, but all alumni are invited to attend any of the annual reunions.



Case Alumni Association All-Classes Reunion Banquet

Scholarship – Scholarship and support comes from many CAA-sponsored programs including Leadership Awards, Academic Awards, Junior-Senior Scholarship, Case Club, Co-op and summer internships. Some of the most memorable scholarship funds established over the years include Van Horn, Midland Case Club, numerous 50th Reunion Class funds and one of the most recent funds, the \$3.3 million bequest from the Wilbert Brewer '15 Trust.

Sources: 1986 Alumni Directory, Case Institute of Technology, Case Western Reserve University; From School to Institute: An Informal Story of Case; Case Institute of Technology: A Centennial History 1880-1980

FIRST DEGREES AWARDED

The first five graduates held degrees in civil engineering. In 1886, chemical and electrical engineering were added to the curricula. By 1890, degrees were offered as well in mechanical and mining engineering, in general engineering and in physics. Geological sciences entered the curricula during the early nineties.

There were 32 freshmen enrolled at Case School of Applied Science in 1890. The following year, total enrollment was 100, and four years later, it doubled. In the early 1900s, the estimated amount needed to complete a course at Case was \$475 annually, including \$100 tuition.

The average first-year salary of graduates between 1894 and 1897 was \$480. From 1898 to 1901, it rose to \$636. Only 10 percent of the graduates received \$1,000 or more during their first year out of college.

Source: From School to Institute: An Informal Story of Case by C.T. Martin published by the Case Class of 1915



Horsburgh '40 begins term as president of CAA.

A TRIBUTE TO GREAT LEADERSHIP

Ever since Daniel R. Warmington took the reins as the first president of the Case Alumni Association in 1897, the organization's leaders have exemplified the "best of the best" of our alumni. Some illustrious names have borne the moniker of "President," alumni who provided outstanding leadership and commitment to the advancement of the organization and its achievements over the years.

INDUSTRY LEADERS



Herbert Dow 1888 Founder, Dow Chemical Co. President, Case Alumni Association 1903-04



Walter G. Nord '09 Founder, Nordson Corp. President, Case Alumni Association 1947-48 Walter's two sons, Evan '41 and Eric '39, also graduated from Case



Sam W. Emerson '02 Founder, Sam W. Emerson Co. President, Case Alumni Association 1918-19

Raymond S. Livingstone '28 Vice President, TRW President, Case Alumni Association 1953-54



Albert M. Higley '17 Founder, Albert M. Higley Co. President, Case Alumni Association 1929-30



Samuel H. Givelber '23 **Reliance Mechanical Contractors** President, Case Alumni Association 1966-67 The CAA gives out an annual fellowship award in his honor



Herbert Elmer L. Lindseth '25 Chairman & CEO, Cleveland Electric Illuminating Co. President, Case Alumni Association 1940-41



Donald F. Horsburgh '40 President, Horsburgh & Scott Co.

President, Case Alumni Association 1967-68

CAA creates endowment fund and receives new IRS 501(c)3 status as public charity.

1971

Roger H. Cerne '63 joins staff as Director of Case Fund®, becomes Executive Manager in 1980 until retirement in 1999.

1974

CAA Endowment Fund rises to \$1.56 million. CIT doubles enrollment to over 2,100 students. CIT holds Centennial Celebration with five alumni 1978

receiving Honorary Degrees. 1980

Philip W. Gutmann '54 begins first of two terms as CAA president.

1990

1973 New merit-based scholarship program created to halt declining CIT enrollment. 10 | Case Alumnus

CAA offices move to Crawford Hall and remain until 2004.

CAA commemorates 100th anniversary with Centennial Celebration.

1985

LIST OF "FIRSTS"



Albert W. Smith Professor, Chemical Engineering President, Case Alumni Association 1904-05 *First faculty member to serve as president*



Kirsh L. Conant '17 President, Case Alumni Association 1951-52

James A. Conant '46 (pictured) President, Case Alumni Association 1964-65 *First father and son to both*

serve terms as president



Albert Gordon '42 President, Case Alumni Association 1997-98 & 2004-06 Only person to serve three terms as president



Susan Nagorney '76 President, Case Alumni Association 2006-07 *First woman to serve as president*

OTHER NOTABLES

Lestor S. Bale '09 President, Case Alumni Association 1934-36 The Les Bale Outstanding Athlete of the Year Award named in his honor

John R. Courtney '31 President, Case Alumni Association 1970-71 Representing three generations of Case graduates



Harry W. Mergler '48 President, Case Alumni Association 1980-81 Gold Medal Award Recipient

fir	Albert Gordon '42 begins first of record three terms as president of CAA.		CAA moves offices off campus to Chester Avenue where they remain today. Tom Conlon becomes Executive Director.			Barbara R. Snyder becomes first female president of Case Western Reserve University.		
1992	1997	1998	2005		2006		2007	2009
Case School of Engineering established and CAA launches \$30 million Case Promise Campaign.		Case Fund [®] Annual Fund sets record with \$1.3 million.		becor	Nagorney Cl mes first femc ident of CAA	ıle	10 11	Ken Loparo G'77, Professor, Electrical Engineering & Computer Science, begins term as most recent CAA president.

CASE ALUMNI ASSOCIATION: WHAT'S IN STORE FOR THE FUTURE?

At the midway point of celebrating 125 years of the existence of the Case Alumni Association, it is appropriate to look ahead to what our alumni can expect from the organization in the years to come. Case Alumnus asked key people associated with the CAA some critical forward-looking questions centering on the strategic plan over the next five years. Here is what some of your leaders have to say.

ON FUNDRAISING . . .

Q: Discuss the importance of the Case Alumni Association to Case School of Engineering's effort to obtain major gifts?

Larry Sears '69, Honorary Chair, Case School of Engineering Campaign Leadership Committee and Member, Case Western Reserve University Board of Trustees: When you make out your annual Case Fund* check, you have an opportunity to reflect on the many ways that your Case education has helped you in your career and your everyday life. You may also think about how you and other Case students have made the world a better place.

The Association, through it's *Case Alumnus* magazine and regional Case Clubs will be instrumental in bringing you the latest information about new initiatives and the resources needed to make the Case School of Engineering one of the best in the country.

If you're fortunate, you're in a position where you can be part of continuing this process with a major gift to the Case School of Engineering.

Norman Tien, Dean and Nord Professor of Engineering, Case School of Engineering: There are only a couple people and places with which we form lifelong relationships . . . Our family . . . A few friends . . . Maybe a neighborhood... and your alma mater. The Case Alumni Association plays a vital role in fostering the relationship between the Case School of Engineering and our graduates. The CAA keeps us all connected through great events like reunion, Oktoberfest, and its Case Clubs. The CAA also helps our alumni to remain connected by its many giving opportunities. From annual gifts through the Case Fund that supports the school's year-round mission of excellence to the major commitments like the recent \$2 million gift to construct the new Richard '39 and Opal Vanderhoof Infrastructure Research and Education Facility, the CAA ensures that every student enjoys an unparalleled engineering education that lasts a lifetime.

Q: Discuss the importance of the future mission of the CAA as tied to the annual Case Fund in support of Case School of Engineering?

Jack Flynn '51, G'53 G'56, National Chairman, 125th Celebration Case Fund®: We all know that Case Fund gifts from alumni are critical to the future of the Case Alumni Association to show that our organization is the best resource for annual giving to the Case School of Engineering. We need more serious giving from those who can afford it to triple our Case Dean's Society membership. We need greater numbers of contributions from those post-federation graduates, especially those who graduated during the last 10-20 years. There is no longer any excuse why not to give. If we want our Association and school to succeed, Case Fund giving will be the key.

ON LEADERSHIP . . .

Q: How do we ensure strong leadership for the CAA going forward?

Ken Loparo G'77, 2009-2011 President, Case Alumni Association: The success of the CAA moving forward is critically dependent on identifying a strategy for



succession planning and development. One of the challenges that we face is that currently CAA leadership and council members are recruited from the local Cleveland area to facilitate continued interactions; however, many of our early career alumni are not locating in this area. Even for those that are available in the Cleveland area, the demands of a budding career and a family make accepting additional outside responsibilities difficult and often unmanageable. Hence we need to continue to cultivate, recruit, and develop early career alumni, while cognizant of the limits on their time, engage mid-career alumni in key leadership positions, and find ways through technology of increasing the participation of alumni that are outside of the Cleveland area in leadership opportunities.

The CAA also recognizes that continuity is a key to successful leadership and will be implementing a strategy where the president and first and second vice presidents each serve two year terms. This will allow the CAA to better define and execute long-term plans and will provide an opportunity for early and mid-career alumni to participate in the organization while building experience and confidence to assume leadership positions in the future.

ON ALUMNI ENGAGEMENT . . .

Q: What do we need to do to engage young alumni and encourage a culture of giving back?

Jim Kilmer '00, CAA Council Member, Case Dean's Society and Past CaSE G.O.L.D. Young Leader Award Recipient: Young alumni, as a group, are hard to reach because there's no single definition of what "young alumni" are. They are engineers and scientists, doctoral students, entrepreneurs, researchers and implementers, working 70-hour weeks or taking a year abroad to clarify their life's goals. By the time alumni leave campus, it's too late to reach them. It's a hectic time in a graduate's life, and one that requires a period of growth and stability before there's time to reflect and put a value on the mentoring, encouragement and philanthropy that helped them reach (hopefully) a few of their goals.

The time to truly engage alumni is when they're students by reaching out through the programs that CAA funds and supports to have a tangible impact on their college years, and to build the gratitude and loyalty that will resurface in the future. As an independent alumni association, we can assist with those things that the University does well, and help to smooth over those things that the students would like to change, and it is vitally important that we provide them with the resources to do so. Some alumni will transition directly into committees and begin to give back immediately. But others will need time.

Q: What are the most successful alumni outreach programs to date?

Anne Cunningham, Director of Annual Giving, Case Alumni Association: Case Club events continue to attract alumni at each stop throughout the country. Our most successful events give alumni the opportunity to interact with faculty, giving our alumni a chance to hear about the most interesting students, research and new initiatives taking place on campus. Future plans will include more emphasis on the impact of alumni support of students and faculty. The four strategic initiative areas that Dean Norman Tien has introduced to the Case School of Engineering will continue to be highlighted. In Fiscal Year 2011, the Case Clubs will highlight the iDEA Institute as well as inviting individual faculty and interesting alumni to share their Case experiences.



New Structures Lab in Civil Engineering

The long-awaited dedication of the Richard '39 and Opal Vanderhoof Infrastructure Research and Educational Facility was held on April 15, 2010, with a ribbon-cutting ceremony by Case Western Reserve University President Barbara R. Snyder, **Frank E. Gerace '48**, and Kevin Hopper and Kevin Kloentrup representing **Richard A. Vanderhoof '39**.

The \$3.3 million facility was made possible by the generous contribution of \$2 million from **Richard Vanderhoof '39** and \$500,000 donations from **Frank E. Gerace '48** and the Dow Chemical Company in memory of **William H. Schuette '33**. Other contributions from Case civil engineering graduates and friends completed the fundraising program led by the Case Alumni Association.

In the heart of the Vanderhoof Facility are the William H. Schuette '33 Structural Laboratory with a completely re-built strong floor and the L-shaped Frank E. Gerace '48 Strong Wall, both equipped with thick flanges and tie-downs on a two-foot grid. An overhead door allows easy access by semitrailers. The facility also houses a 15-ton overhead crane, a servo-hydraulic actuator, a high-capacity hydraulic pump and a 32-foot scissors lift.

The facility gives the department of civil engineering a state-of-the-art testing resource for learning industrial and government applications as well as a "showplace" for attracting outstanding students and faculty.

Professor Dario Gasparini, who shepherded the project from two students' senior projects through to reality, stated to the audience, "It's a gift from the past civil engineering alumni to future and present students." President Snyder commented that this facility allows University students to "think beyond the possible," and Case School of Engineering dean, Norman Tien, thanked the alumni, faculty and students of the department for their commitment to the school's strategic initiatives. Department chair and Frank Neff Professor, David Zeng, stated that this facility has inspired a new dynamic vision within the department.

The dedication was concluded by three demonstrations of projects conducted by students and faculty.

The Vanderhoof Facility will continue the legacy of civil engineering at Case, to provide education and advanced research on infrastructure and prepare graduates to serve society.

> Top: Professor Dario Gasparini Bottom: Gerace Strong Wall



<u>MY FAVORITE FACULTY</u>

Down memory lane . . . A compilation of alumni submissions describing key faculty members and administrators who left a mark on their Case educational experience



MAX MORRIS, PROFESSOR OF MATHEMATICS

By William A. Beck '51

When I was a senior at Case Institute of Technology in 1950-51, one of the specialties of Professor Max Morris was projective geometry. His lectures to a small class of students introduced us to the concepts and principles of this branch of mathematics, which deals with relationships among straight lines, points, circles, ellipses and other conic sections.

To illustrate some of the theorems using diagrams consisting of straight lines and their intersecting points, Dr. Morris sometimes needed more space than a blackboard could accommodate. He often had to trace onto the walls above and below the chalkboard to display the intersection of two lines.

One afternoon, Dr. Morris had to extend two lines onto the closed door of the classroom. Just as he was about to punctuate the intersection point with the chalk, the door opened. The chalk nearly found its target in the face of the unsuspecting person attempting to enter the classroom.

HARRY NARA, PROFESSOR OF CIVIL ENGINEERING

By Alex Margevicius '81, G'83



As a civil engineering major in the late 1970s and early 1980s, I, of course, had Harry Nara for a number of courses. He made quite an impression, with his cowboy boots and hat and string tie.

One day in Bingham Hall, someone had posted flyers throughout the building that basically said, "Do you suffer from testing anxiety? Come to our session and learn about the psychology of test taking."

Dr. Nara, a pretty straight shooter, read the flyer on his way into the classroom and an amused expression came over his face. He then said to the class, "If you don't know your material, there's not a damn thing your psychiatrist can do to help you. The best thing you can do for testing anxiety is to study."

The class broke out into a riotous laugh. I think that most of us who had Dr. Nara have a warm spot in our hearts for him.

LOUIS B. GREEN, PROFESSOR OF MATHEMATICS

By Charles Pervo '64



As a sophomore math major in the fall of 1961, I had a course—M5 Basic Mathematical Concepts—from the legendary Louis B. Green. Professor Green was famous (infamous) for his grading system, where he gave "no partial credit." He would say, "If an engineer designed a bridge, and it falls down, does he get partial credit?"

M5 was used by Dr. Green to both introduce the subject to

undergraduates as well as to discourage the faint-hearted. The median score on exams was often about 5 out of 100. (It's not aging eyes—you read that correctly!)

One afternoon in the spring, our instructor shared a story with us. Professor Green said that several years prior, he had been working on a problem in geometry for six months and had not been able to solve it. So, he decided to give the problem to the sophomores. He told the class, "When Donald Knuth came to my office with the solution in 45 minutes, I knew we had an outstanding student in him."

(Author's note: Donald Knuth was a legend himself who went on to become not only an outstanding author and academician, but also a Turing Prize winner and one of the "Fathers of Silicon Valley.")

HENRY "HANK" WHITE, PROFESSOR OF CHEMISTRY

By George L. Morgan '58

In my freshman year, I wanted to withdraw from classes at Case because I could no longer afford to attend. Case charged the highest tuition in the state, about \$600, if I recall correctly. All of my other professors signed the petition to withdraw, until I got to Hank White. He said that if I needed money, Case could provide it. So, Professor White got me a job at the Armed Services Medical Procurement Association. It paid a dollar an hour. Never before had I liked school, but after that I began to enjoy it. In addition to classmate, George Walker, Jack Flynn (later a vice president at Dow Chemical) worked with me there.

At the end of my first semester, I achieved the highest score on a calculus test, a total score of 89.8%, a B. I knew that I would have to receive a grade of 101% on my chemistry final to receive an A for the semester. So I decided to take it easy, casually looking through my notes on the rapid transit on my way to class. I ended up getting a "100" on the test, and Professor White gave me an A for the semester grade after all.

JIM ANDERSON, PROFESSOR OF PATHOLOGY, MACROMOLECULAR SCIENCE AND BIOMEDICAL ENGINEERING AND ANNE HILTNER, PROFESSOR OF MACROMOLECULAR SCIENCE

By Mike Renier '92

As a Case alumnus from the Macromolecular Science department, I'd like to express my indebtedness to two of my advisors, Jim Anderson and Anne Hiltner. Over the years, I grew to appreciate the contributions made by both individuals. Their knowledge that science is made up of comparisons of control and experimental groups to form a hypothesis has helped me to develop a scientific system, which I still use today.

One of the greatest contributions to my scientific career was their instruction on how to write a research publication. Also, some of the day-to-day social contact with my advisors helped to create a professional conduct code, which I still use today. They taught me that professional conduct at work is separate from working on your problems in your personal life.

I grew to respect my advisors over the years for their knowledge of the subject of polymer science/biomaterials while I was studying at Case. When I worked at the University of Michigan Medical School as a research assistant, I was able to perform the research at a high level because of what I learned from them.



FROM EDUCATION TO INNOVATION The Case Entrepreneurial Experience Symposium Synopsis

On May 13 and 14, the Case Alumni Association hosted an extraordinary symposium in honor of its 125th anniversary. The symposium featured graduates of Case who exemplify the entrepreneurial spirit. Each agreed to share their thoughts about their own career success and how the Case experience helped shape their future endeavors.

On the following pages, we include highlights from the event starting with excerpts from an introductory speech given by Thomas P. Kicher, Ph.D., Armington Professor Emeritus, at a special dinner held the night prior, to welcome the featured symposium speakers.

A Case for Entrepreneurs

By Thomas P. Kicher

Case has a long history of fostering an entrepreneurial spirit among the students, faculty and alumni. Having returning alumni address the topic about their success in the corporate world allows Case graduates the opportunity to give back by sharing lessons learned and knowledge gained.

All organizations have personalities—qualities and characteristics that set them apart. These personalities influence the dynamic interaction of the organization's participants, whether it is a school, a class or a community. Clearly, the personality that defines Case was established during the founding and the early years of the institute. In many ways, these personality traits have intensified and are even stronger today.

Entrepreneurial activities are like many other activities, hard to define, but "I know it when I see it." An important element of a successful entrepreneurial activity is the management of the risk-reward balance. Many entrepreneurial activities add real wealth to the economy and have a clear, identifiable focus and strong foundation, whether it is technical, financial or industryrelated. Those organizations have one thing in common—an obvious corporate spirit, "*esprit de Corps.*" Entrepreneurs tend to be eternal optimists in both attitude and outlook.

In the decades leading up to the creation of the Case School of Applied Science that took place near the end of the 19th century, there was an

emerging need for processes and equipment related to farming, mining and manufacturing. There was also a protracted debate on education in America, which centered on church versus secular, on formal education versus apprenticeship, and on classical university versus technical college.

This school emerged during the age of invention and an incredible era of entrepreneurship. Cleveland was a focal point for many of those inventions. Early developments in civil and mechanical engineering, as well as mining and metallurgy, were underway. With the advent of electricity came the electric light bulb, the telephone, the talking machine and welding technology, followed by chemical technologies such as photography and petroleum. The need for a thorough scientific foundation was never stronger.

These were the formative years of engineering as a profession. Just take a look at some of the professional societies that were formed during this time: American Society of Civil Engineers – 1852; American Institute of Mining, Metallurgical and Petroleum Engineers – 1871; American Society of Mechanical Engineers – 1880; Institute of Electrical and Electronic Engineers – 1884; American Society for Engineering Education – 1893; Society for Automobile Engineers – 1905 and American Institute of Chemical Engineers – 1908.

Schools offering engineering degrees grew from four in 1860 to 85 two decades later, prompted by



the many gifts of benefactors and the Morrill Act of 1862, which established the land grant universities. Harvard University granted its first engineering degree in 1854, which increased to 185 by 1892. When the Case School of Applied Science was formed in 1880, based on a trust deed from Leonard Case, Jr., this gift was the 8th largest gift dedicated to founding a school.

The founding board of trustees struggled to respond to Leonard Case's request to establish a "school of applied science." Case was educated as a lawyer and managed the family's land holdings. While he was an amateur scientist, his interests ranged from astronomy and physics to literature and languages. The few instructions demanded in his trust deed required the school to teach mathematics and physics, civil and mechanical engineering, economic geology, mining and metallurgy, natural history, drawing and modern languages. Other subjects could be added later with the approval of the trustees.

Ultimately, the board relied on the judgment of Case's friend, John N. Stockwell, a self-taught mathematician and astronomer, to select and organize the faculty. Dr. Stockwell and the trustees sought the advice of Dr. Benjamin A. Gould, founder of the Astronomical Journal, and Dr. John Newberry, head of the Columbia School of Mines. The trustees settled on five instructors: John Stockwell would teach mathematics and astronomy, Arthur F. Taylor would teach chemistry and physics, C. Vaillant would teach French and I. W. C. Duerr would teach German. Albert A. Michelson, considered by many to be America's preeminent scientist, was hired to teach physics, but delayed starting until the fall of 1882, spending a year of touring Europe and buying equipment to teach physics laboratory. John Eisenmann joined the faculty in the spring of 1882 to teach drawing.

For the first five years of its existence, Case remained unrelated to its Cleveland industrial environment, with most early graduates finding positions outside of the area. Only nine out of 36 alumni entered Cleveland industries, three became faculty members and several were involved in new businesses, including Herbert Dow of Dow Chemical, Albert Smith of Lubrizol and Frank Neff of ERICO. By 1895, Case had granted 109 degrees and the enrollment had grown to 229 students.

Within 20 years, Case began to establish meaningful roles in both professional training of engineers and scholarly scientific investigation. Graduates followed the leadership of the faculty, prompting many to become entrepreneurs. Today, 26 percent of alumni claim to be the CEO/founder/owner of their own company, with an additional 25 percent identifying their roles as the principal resource for solving critical technical problems or the development of new products.

Ultimately, the school's personality was shaped by the donors, founders and faculty, which were undeniably influenced by the environment of Northeast Ohio. A unique balance between scientific investigation and problem solving for practical applications emerged, and Case Institute of Technology grew as an educational leader. CIT became the first school to receive ABET (Accreditation Board for Engineering and Technology) accreditation for programs in computer engineering, systems engineering, polymer engineering, fluid and thermal sciences and biomedical engineering.

Pick your favorite entrepreneur. For me, I would select Richard (Skip) Le Fauve, who was the founding leader of the Saturn Corporation. Working within the extensive organization of GM, Skip had a profound influence on the entire automotive industry, influencing everything from the design of cars to the manner in which they were marketed and sold.

Leonard Case's gift to Cleveland was a unique school that fosters an entrepreneurial attitude among its students and faculty, with a real appreciation for the entrepreneurial spirit among its alumni.

I'm very proud to identify myself as a product of such a Case education.

An entrepreneur is resilient – adaptable – intellectually agile –spiritually centered – emotionally mature – lucky – sales-oriented – optimistic – idealistic – cautious –

Highlights from the Session Speakers at the 125th Anniversary Symposium

Karl-Heinz Schofalvi 'G89 President, Stanton Advanced Ceramics, Inc.

⁶⁶ An 'external entrepreneur' is defined as one who begins a business venture outside of the corporate or academic umbrella. The enterprise must somehow be innovative and create wealth from where there was none before. An 'extreme'



external entrepreneur starts a company from his/her own scientific or engineering innovation and money, with no large corporate or academic funding.

This is my fourth company since 1993. Seems to be what I'm able to do: start new companies, get them going, sell them off to some operational entity and then do it again. Most entrepreneurs strike out on their own because they are either (1) a corporate superstar; (2) a corporate misfit – having resentment and a business plan; (3) an academic rebel – never quite fit into tenure track but has a Ph.D. or strong technical knowledge; or (4) a criminal mastermind.

What do you tell someone who says, *I have this idea, and I'd like to try it. What do you think?* The first thing you tell them is, *keep your job.* A real external entrepreneur won't listen anyway. But even someone who is toying with the idea of starting a company should keep his/her job and try it on the side. It's too much of a leap for most people.

And if this person asks you to help fund the venture? I would say, *before I give up my retirement money to you, have you tested your ideas?* Remember, due diligence is more than just a market survey. But my favorite question to ask is: *how much have you invested of your total liquid wealth?* If it's not 100%, forget it. If you aren't willing to go 'chips in' then you are not ready to be an external entrepreneur.**??** Tim Schigel '89 Founder and CEO, Share This



⁶⁶I had a knack for science and technology but didn't know what I wanted to do. Coming out of Case with an engineering degree gave me confidence. You don't always know the relevance of what you're taking in school until you get out in

the real world. It wasn't until a couple years after I got out of school that it hit me. I started to see the impact it has when you understand some of the properties of the world and how they work, and make new things based on that knowledge.

I will admit a bit of bias. My bias is that I think you need to know something before you become an entrepreneur. That may not be true 100% of the time, but I encourage a young person to actually go do something before trying to start a business right out of school. Fully understand something, some domain, be an expert on it, and then learn how to leverage that.

Three principles that come to mind when considering an entrepreneurial track is (1) *engagement* - having fun doing what you are doing and doing things you like; (2) *creation* - it's the act of creating and often failing that leads to a lot of the innovation; and (3) *the eyes of others* – be it your customers or your employees. Too often founders/CEO's fail because they don't hire 'A' players. Admit you are not the 'A' player.

You have to be optimistic and a bit of an idealist. Those ideals should be used as guides. If somebody makes something look simple, they've had hours and hours and years and years of practice. One of the ways you get practice as an entrepreneur is that you go out and start a company, and maybe try it over and over again. Keep listening and keep learning.⁹⁹ good listener – lifelong learner – determined – confident – persistent – courageous – curious – enthusiastic – comfortable with ambiguity – leader – results-oriented –

Myra Dria '76 President and CEO, Opal Resources LLC



⁶⁶There were four key events in my life that led to my being an entrepreneur:

(1) My father founded his own sales and distribution company. It was designed at birth that my brother would take over my father's

company. It was always hinted I could have a secretary job with my brother's company. Out of that, I saw it as a challenge and opportunity to tell family and friends that I was going to do a lot better than that.

(2) I was a competitive figure skater in the late '60s and '70s, which gave me confidence. I learned how to work hard. You fall many times and you pick yourself up and you do it again. I was an eternal optimist.

(3) In 1976, I was an undergraduate student at Case. That in itself had a few hurdles. Out of 770 students, there were seven women in my graduating class. My time at the university was challenging. There were faculty members here who were encouraging but many that weren't. I experienced both, and it made me a stronger person.

(4) When I left the university with my Ph.D., I ended up with Shell, the pinnacle of technology at the time. They had 15 of the industry's top researchers, all Ph.D.'s with impressive resumes and achievements. Unfortunately, a technical manager who had a disdain for technology did away with the entire department – he laid everyone off. I couldn't believe his attitude and the frivolity of the situation. When I left Shell in 1990, I decided I would start my own company one day.

It took me 16 years, but I focused on three key elements on my way to becoming an entrepreneur: (1) Obtain leadership positions instead of research focus; (2) Gain management in each technical and commercial discipline with different companies, and (3) Develop a presence with a private energy company.⁹⁹

Don Richards '79 Senior Managing Director, Accenture

⁶⁶I graduated from Case in 1979 and started with a company that I'm still with – Accenture, originally Arthur Anderson and Anderson Consulting. I've been at the same place for 31 years and never been bored a minute. I'm talking



today about a different angle – being an entrepreneur from within an organization.

Along the way, I was involved in the development of a new business model in outsourcing for the company. I had to start up a new business, Accenture Tech Solutions. I also served as the CEO of that company along with many other leadership roles throughout the years.

My father started a business when I was 14 years old – an 'all in' kind of thing. I worked there full time during the summers and part time through junior high and high school. It was quite an education for me working that close with a start up. I learned a lot of things and saw how hard my father worked doing every job imaginable. I was supposed to take over the family business but I didn't. I wanted to do my own thing.

You can work inside of a big company but still have a lot of the same aspects and challenges from an entrepreneurial standpoint. You learn a lot of things along the way. You have to focus on making sure that the business is successful. I boil it down to three major building blocks for the enterprise to be successful: *market focus & position; distinctive capabilities in your core competencies; and performance anatomy, including workforce.*⁹⁹ hard worker – not a quitter – confidence builder – decision maker – action taker – focused – a team player – balanced – and has fun doing what he/she loves to do.

Tien-Li Chia G'82 President, ControlSoft Inc.

⁶⁶I started a company from within the walls of academia. Our company experienced several phases along the way: startup/ learning, growth (the rise), set back, and recovery. There were lessons learned at each stage of commercializing our research.



Learning – Having knowledge of the business/ industry you are in is critical, but I didn't know that at the time of start up. We spent a lot of time just learning the business. Paid a heavy price with the time we spent learning and had a lot of missed opportunities. Whether you provide products or services, your business strategies must continue to evolve.

Rise – Opportunities will knock; they will come many times. Opportunities will keep coming back to you – learn to recognize them, know your stuff and deliver.

Setback – The sad fact is, setbacks are likely to occur even if you've done everything right. It can be lonely and difficult, but you need to tough it out. During these times, conserve resources. No one is there to magically help get you out of it. Stick to your game plan, keep working at it and opportunity will knock again.

Recovery – Prepare by diversifying your business and talking to the end user more. You need to relearn a lot of things. If you don't have the internal expertise, go out and get help from experienced consultants. Work on building your team.

What is the lesson here? If you want to start your own company, you can do it. No money down, and no experience required, however, persistence is a must have. You need to stick to your game plan and have a strong desire to be successful. Things will come to you.⁹⁹

Geoff Thrope '79 President and CEO, NDI Medical

⁶⁶I am a very proud graduate of the Case School of Engineering. I have much to be thankful for as an alumnus. My least favorite topic is to



talk about me, but I'll use myself as an example in regard to entrepreneurship.

I was thrilled as a student with the opportunity to do research, and it gave me a tremendous foundation for entrepreneurship. Working in labs when I should have been in the classroom is really where I learned as much as I did. Growing up in the New York region, I never went home. Instead, in the summer I'd do research – that's where the action was. I absorbed myself leading up to graduating in 1979.

When I was 25 years old and a couple of years out into the world, I made a goal for myself. I said, *when I am 55 years old (in 30 years), I'm going to be independently wealthy.* I wanted to have the opportunity to take any direction at that point, whether it was to stay at work doing what I was doing or do more volunteer work. But that was my goal.

I'm proud to say I achieved that milestone three years early. I share this because entrepreneurs have to be leaders, and you have to have concrete objectives and goals. You have to clearly state what those goals are. They have to be bold and you have to go after them. Failure will be part of the process, absolutely. It's how you respond to crises, how you respond to setbacks and the failures, which ultimately will determine your degrees of success.

As I said, my education really helped shape my career as an entrepreneur. As an engineer we all realize going through those tough classes, you aren't going to get it right away. Even the brightest of us had difficulty getting through those early

Video of each speaker and his/her PowerPoint presentation can be viewed online at www.casealum.org.

Panel Discussion Highlights

Attendees at the 125th Anniversary Symposium were treated to a lively panel discussion on the rigors and lessons learned of being an entrepreneur. Discussions ranged from how to approach funding for a start up company to risk management to sustainability and value creating to developing an exit strategy. Also discussed: how academia needs to teach business valuation, frugality in running a business and the cost of engineering (how to do it cheaper, better, faster). For a complete video presentation of the event, visit www.casealum.org.



From left to right: Walt Culver G'62; Jennie Hwang, G'76; Paula McNichols '65; Russ Warren '60; and Mac McNichols '65

Paula McNichols '65 is cofounder of MCR, Inc. and was the treasurer until the company sold in 1999. She received the Meritorious Service Award from the Case Alumni Association in 1995 and still interviews prospective students for Case. She currently serves on the board of the McNichols Foundation and raises funds for the Leukemia & Lymphoma Society.

Walt Culver 'G62 has more than 40 years of experience in building and running complex organizations, setting technology-based strategies, and in dealing with government partners around the world. In early 2007, he and his wife Sylvia endowed the first graduate fellowship at the Great Lakes Energy Institute, in Sustainable Infrastructure.

Jennie Hwang G'76 is an international businesswoman, worldwide speaker, prolific author, corporate director, university trustee and community leader. Her work is highlighted by numerous national and international awards and honors. She was the first woman to earn a Ph.D. in Materials Science and Engineering at Case Western Reserve University. **Russ Warren '60** earned a B.S. degree in electrical engineering at Case Institute of Technology and became a CPA with Ernst & Ernst. He decided to become an entrepreneur in 1987, founding The TransAction Group, a boutique mergers and acquisitions firm. He is on the visiting committee of the Case School of Engineering and the Weatherhead School of Management.

Mac McNichols '65 is co-founder of MCR, Inc., serving as chairman and president until 1999. He has served on the boards of several corporations and non-profit organizations and currently works as a consultant to several small companies to help entrepreneurs grow. He is president of the McNichols Foundation and holds several lifetime achievement awards for his research work.

Junior/Senior Scholarships - Top of the Class

This year, a total of 103 new scholarships were awarded by the Case Alumni Association's Scholarship Committee. Deserving students at Case School of Engineering and in the math and sciences at the College of Arts and Sciences received a total of \$968,200 in scholarship money toward their junior or senior year at Case. Eighty-two percent of the awards went to engineering students.



Chirag Dhami Warren, OH Double major: Biomedical Engineering and Economics

A president's scholar and member of the Dean's List with high honor, Chirag is an accomplished student in the classroom. But most intriguing may be Chirag's accomplishments outside the classroom. He is head delegate of the CWRU Model United Nations Team,

is part of Professor Eben Alsberg's laboratory researching tissue engineering practices in relation to orthopedic applications, and works in the undergraduate admissions office.

When asked "What do you want to be when you grow up?" Chirag replied, "This morning I wanted to use my business and engineering education being a consultant for a large firm like Accenture, but this afternoon I'm thinking about continuing the research I was able to participate in as an undergraduate. Or I may go directly on for my MBA."



Cady Walter Latrobe, PA Major: Civil Engineering

Cady Walter is a provost scholar, vice president of education of Kappa Alpha Theta Sorority and a member of the Spartan Dance Team. Cady will use her training in civil engineering to practice historical restoration. Her current internship may not cover historical restoration, but as she approaches her

second summer with the company, Cady is looking forward to more hands-on experience in the field.

As a sophomore, Cady was recently accepted into the TiME program, where she will earn a Masters of Engineering and Management in her fifth year of study at Case School of Engineering. Cady's early acceptance into the TiME program will allow her to start her program study in the summer of her junior year prior to entering her senior year of study.



Eric Mott Kalamazoo, MI Major: Aerospace and Mechanical Engineering

A member of the Dean's List with high honor, an active member of Delta Tau Delta fraternity and a research assistant in the Department of Neurological Surgery, Eric has made the most of his undergraduate career. Choosing CWRU for its size and the attention he

could get from professors and instructors in small class sizes, Eric has excelled in the study of aerospace engineering. He is enthralled by the space program and is hoping to one day work for NASA or Scaled Composites in the private sector, designing and developing rockets for space travel.

Eric's other passion is giving back to the community in which he lives. He founded Dance Marathon at Case Western Reserve University in 2009 and is working to develop fundraising events in support of children battling cancer at University Hospitals. The first successful event took place this past winter as DM-CWRU hosted "Dancing with the Stars" with professors and staff as the stars.



Jessica Lanzo Cleveland, OH Major: Aerospace Engineering

A provost scholar, Jessica studies aerospace engineering and has wanted to work for NASA since she was inspired as a young girl by the air shows she attended with her father. Jessica's high school guidance counselor recommended she apply to CWRU and Jessica is very thankful

for that advice. Jessica has benefited from the work of WISER (Women in Science and Engineering Roundtable), which has enabled her to have a mentor that she speaks to regularly through email. She will pay back her mentor by becoming a mentor to other undergraduate women once she graduates.

Outside of the classroom Jessica is a volunteer at the Great Lakes Science Center, where she has the "keys" to behind the scenes of how all the equipment works, which she really enjoys.

CLASS NOTES

1940s

Edwin A. Kopas, '42, Parma, Ohio, is approaching his 91st birthday and recently celebrated his 64th wedding anniversary with his wife, Anna. He has a firm belief in the value of education and strength of family. All four of his children are college graduates, including a Case Alum from the class of '70 in Mechanical Engineering. Ed is proud of his alma mater and still attends class reunions when he is able. He enjoys reading, especially the *Case Alumnus* magazine and has many fond memories of his college years that he still speaks of today. Ed had a successful career and traveled the world as an engineering manager for a firm that designed and built blast furnaces for the steel industry. Submitted by Ed's daughter, Diane Levoy

1950s

Americo Forestieri '51, Berea, OH, is the conference administrator and planner for the IEEE Photovoltaic Specialists Conference.

Seymour Rothstein '52, Highland Park, IL, has enjoyed traveling and recently returned from Australia and New Zealand. He has now visited all of the continents.

James I. Taylor '56, Granger, IN, is planning a trip to Norway to visit a classmate with whom he reunited at their 50th anniversary reunion.

William W. Gerberich '57, Excelsior, MN, was recently elected as TMS Fellow by the Minerals, Metals & Materials Society and is on the Thomson Reuters Impact Factor list of most highly-cited researchers.

1960s

William A. Dent '60, Northfield, OH, is retired Professor Emeritus of the Astronomy Department at the University of Massachusetts and has moved back to the Cleveland/Akron area.

> Seymour Rothstein '52 in New Zealand this past January

Frank V. Razinger '63, Lima, OH, has retired from his consulting engineering practice, which designed commercial and industrial buildings. He is leaving the business in his son's hands to carry on.

Robert L. Smialek '65, Dublin, OH, served 12 years as director on the board of General Cable Corporation, which was recently named to the Fortune 500.

Robert J. Herbold G'66, Bellevue, WA, has published two books, "The Fiefdom Syndrome" and "Seduced by Success: How the Best Companies Survive the 9 Traps of Winning." He recently launched Herbold Group LLC, which consults with CEOs on strategy and business profitability issues.

Kenneth R. Barrett '69, Brooksville, FL, is retired and living in Florida.

1980s

David A. Butler '82, Clayton, MO, is now an adjunct professor at Washington University's Olin Business School teaching Strategic Quality Management. He is also helping the Business School launch a healthcare excellence collaboration.



Americo Forestieri '51



CLASS NOTES

CLASS NOTES EXTRA

Albin J. Gasiewski III '83, Boulder, CO, is a professor of electrical engineering at the University of Colorado in Boulder.

1990s

Matthew A. Medford '93, Lynnfield, MA, does contract mechanical design and analysis for Advanced Electron Beams in Wilmington, Mass.



2000s

Christine L. Gosen '05, Cleveland, OH, is graduating from medical school this year and starting her emergency medicine residency in Minnesota.

Erika B. Lindholm '06, Daytona Beach, FL, was awarded a Doctor of Medicine degree from Louisiana State University School of Medicine. She has been accepted as a surgery resident and will continue her studies at LSU in New Orleans, Baton Rouge and Lafayette, LA.

Let's Hear from You!

Send your Class Note submissions to the Editor at mrosko@cox.net.

Case Western Reserve University Well Represented At Ductile Iron Society and Iron Casting Research Institute Meeting



Former students of the late Professor John F. Wallace from the Department of Material Science were present at a recent DIS and ICRI Conference. This conference highlighted and discussed the application of ductile iron in renewable energy technology. The industry stalwarts present were (from left to right) Eugene Muratore (BS'70), Daniel Mayton (BS'71), Edward Gesdorf (BS'68), James Csonka (BS'84), Andrew Adams (BS'75), Gregory Selip (BS'76), and Rodney Naro (BS'65, MS, and PhD).

Submitted by Andrew Adams '75

James J. Hunt '39, Cleveland Hts., OH, reports . . . As the sole attendee at the Class of 1939's 70th Reunion last year, it was good to be recognized by Roger Cerne '63 and Art Leaty '44.

"I left right after the delicious dinner and had to miss the speeches. At age 93 driving after dark is something that I try to avoid."

Judson M. Aspray '51, Temple Terrace, FL, reports . . . He visited Cleveland this past September, toured the campus and had dinner with classmate Dick Smith.

"First time I had seen campus in years."

Ivan S. Ganyard '51, Rocky River, OH, reports . . . The Case Class of 1951 Annual Brunch was a great success.

Eric J. Matyac '94, Medina, OH, reports . . . He has worked at client sites outside of Cleveland for the past year and misses interaction with his associates at Case Alumni Association. **Gary Westbrook, M.D. G'74** will hold the Dixon Professorship in the Oregon Health & Science University's Jungers Center for Neurosciences Research. The endowed position was established to support a leading faculty member of OHSU's nationally acclaimed brain research programs. Dr. Westbrook, a professor of neurology in the School of Medicine and senior scientist in the Vollum Institute at OHSU, is an expert in neurotransmission, the regrowth of brain and nerve cells, and the functions of neuronal networks. In his new position, he will co-direct activities of the Jungers Center, a collaborative created to translate basic research discoveries into practical treatments for neurodegenerative conditions.

Dr. Westbrook received his medical training and graduate study in biomedical engineering at Case Western Reserve University. He was an intern and resident at Mt. Auburn Hospital in Boston and at the Washington University School of Medicine in St. Louis. After clinical training, Dr. Westbrook spent six years in basic neuroscience research at the National Institutes of Health before moving to join OHSU in 1987. He was elected in 2008 to the Institute of Medicine of the National Academy of Sciences.



Gary Westbrook, M.D. G'74

OTHER NOTABLE ALUMNI IN THE NEWS . . .

James Clair Wyant '65 was elected to Case Western Reserve University's board earlier this year. The student-athlete majored in physics while earning his bachelor's degree from Case Institute of Technology. He received his doctorate from the University of Rochester in 1968 after previously achieving his master's degree in science. Dr. Wyant is dean of the College of Optical Sciences at the University of Arizona.

Evalyn Gates '81 was named executive director of the Cleveland Museum of Natural History earlier this year. She is a well-known physicist, author, educator and advocate of increasing the ranks of women in science. Dr. Gates earned her doctorate in theoretical particle physics from Case Western Reserve University.

Read more about your fellow alumni at www.casealum.org/community.

IN MEMORIAM

Edward M. Kain '36, Naples, FL, February 11, 2010 John W. Coltman '37, Pittsburgh, PA, February 10, 2010 Louis J. Tarnay, Jr., '39, San Jose, CA, Date Unknown Kenneth H. Green '40, Concord, MA, December 2008 Merritt B. Sampson '40, Cleveland, OH, December 7, 2009 Ernest H. Schanzlin '40, San Marcos, CA, March 9, 2010 Joseph Janus '42, Painesville, OH, December 8, 2009 Harry R. Jurman '44, Tucson, AZ, November 28, 2008 Charles C. Swearingen '45, Cleveland, OH, December 12, 2005 Louis K. Acheson, Jr. '46, Vista, CA, Date Unknown Theron R. Brayman '48, Jupiter, FL, February 24, 2006 Charles W. Olson, Jr. '48, Cleveland, OH, March 4, 2010 Charles J. Daye '49, Marco Island, FL, July 27, 2009 William C. Howard '49, West Chicago, IL, March 17, 2010 Nelson D. Abbey, Jr. '50, Pelee Island, Ontario, Canada, February 1, 2010

Henry W. Lempke '50, Minneapolis, MN, March 16, 2010 Robert J. Lubick '51, Westlake, OH, March 25, 2010 William C. Moushey '51, Curlew, WA, Date Unknown Richard E. Lehnhardt '52, Mission, TX, April 16, 2010 Dan D. Profant '52, West Harwich, MA, Date Unknown Harold L. Williams G'52, Rocky River, OH, December 20, 2010 Leonard W. Ziska '52, Punta Gorda, FL, February 27, 2010 Peter M. Dawson '55, Birmingham, MI, January 28, 2010 Robert E. Gang G'55, Folsom, CA, August 2009 Gary B. Kumler '55, Cleveland, OH, April 17, 2010 Paul P. Buchynsky G'56, Fayetteville, PA, Date Unknown Donald J. Hohman '57, Harborcreek, PA, November 24, 2009 Paul L. Montgomery G'57, Roanoke, VA, January 16, 2010 James H. Heeremans G'61, Sandwich, MA, Date Unknown Paul A. Restaino '65, Palm Beach, FL and Locust Valley, NY, February 19, 2010

James W. Szabo '65, Cleveland, OH, May 13, 2005 Carl A. Rotter G'66, Morgantown, WV, January 29, 2010 Siegfried Detke '72, Grand Forks, ND, January 14, 2010 John M. Majka '76, Cleveland, OH, April 11, 2008 Kirk G. Tunder '76, Cleveland, OH, August 11, 2005 John F. Fralick G'77, Salt Lake City, UT, March 18, 2010 Michael J. Render '93, Cleveland, OH, December 8, 2009 Kurt N. Owen '01, Washington, DC, December 13, 2009

MAURICE GORDON '70

Maurice Gordon passed away on November 1, 2009, in Houston, TX. He earned a Bachelor of Science in Mechanical Engineering from Case Institute of Technology in 1970. Gordon was a registered Professional Engineer in Texas, Maryland, Ohio and California and was a Chartered Engineer in Britain.



Gordon received the Meritorious Service Award from Case Alumni Association in 2007 for his outstanding career in marine engineering with SeaRiver Maritime, an affiliate of Exxon Mobil. He also established his own company, Maritime Systems Engineering, which provides expertise to the maritime and power plant industries. Gordon's lifelong devotion to Case Institute of Technology and his outstanding Case Dean's Society level annual support of the Case Fund® provides a leadership example of philanthropic support for his alma mater.

OTHER NOTABLE DEATHS

Eleanor Shankland recently died, shortly before her 95th birthday. She provided pen and ink sketches of important buildings on the Case Western Reserve campus. The sketches can be found on walls and note cards, as well as many university publications. She was a co-founder of Art in the Circle, the former gallery that operated out of the lower level of Tomlinson Hall. She was a generous supporter of the university and an active participant in many campus events. She was married to the late Robert Shankland, professor of physics.

A LEGACY OF GIVING

We thank all of the thousands of Case School of Applied Science, Case Institute of Technology and Case School of Engineering alumni and friends for their outstanding contributions throughout the 125 year history of the Case Alumni Association for the benefit of past, present and future generations of students.



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Support for the Case School of Engineering and math and applied sciences of Case Western Reserve University

To administer named endowment funds dedicated to scholarships, fellowships, professorships, faculty support, labs and equipment and other uses for the benefit of the Case School of Engineering and the math and applied sciences of Case Western Reserve University.

21st CENTURY SOCIETY

Recognizing those who have provided for the future by including the Case Alumni Association in their wills, estate plans and/or life income trusts.

THANK YOU FOR YOUR LEGACY OF GIVING

CASE ALUMNI ASSOCIATION AND FOUNDATION, INC. 10605 Chester Avenue, Suite 309 Cleveland, Ohio 44106-2240

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June 15, 1885

Case School of Applied Science Case Homestead – Rockwell Ave.



We, the first five graduates of the Case School of Applied Science, hereby establish the Case Alumni Association, an organization for alumni, by alumni, of alumni dedicated to fostering fellowship among alumni, promoting the profession of applied science to serve humanity and our society, and perpetuating the institution of the Case School of Applied Science by providing support to future students and exalted faculty.

Only by the perpetuation of our alma mater into the future, will the sanctity of our degrees be preserved and recognized.

We commit ourselves to that end.

Signed

Henry G. Abbey Louis F. Brown Fred H. Kindle Joseph B. Waud Daniel B. Warmington

*An historical re-creation, based on 125 years of experience and guiding principals, of the Case Alumni Association founders' vision.