



ONE HUNDRED AND FORTY-FOURTH COMMENCEMENT  
MAY 28, 2022

# 2022 COMMENCEMENT PROGRAM

<b>Prelude</b> .....	White Chapel Brass
<b>Academic Procession</b> .....	Erik Z. Hayes, BS, MS <i>Grand Marshal, Vice President for Student Affairs and Dean of Students</i>
<b>Introduction</b> .....	Patricia A. Carlson, AB, MA, PhD <i>Professor of American Literature and Director of PRISM</i>
<b>Processional</b> .....	The Rose-Hulman Joint Service ROTC Color Guard and Indianapolis Public Safety Pipes and Drums
<b>National Anthem</b> .....	Performing Arts Ensemble
<b>Welcome</b> .....	Addison B. White <i>Past President, Student Government Association</i>
<b>President's Remarks</b> .....	Robert A. Coons, BS, MBA <i>President</i>
<b>Comments from Senior Class</b> .....	Haiden M. Smith <i>President, Senior Class</i>
<b>Awarding of Heminway Medal</b> .....	Richard E. Stamper, BS, MS, PhD, PE <i>Provost and Vice President for Academic Affairs and Professor of Mechanical Engineering</i>
<b>John T. Royse Award</b> .....	Erik Z. Hayes
<b>Herman A. Moench Distinguished Senior Commendation</b> .....	Thomas M. Adams, BS, MS, PhD <i>Professor of Mechanical Engineering</i>
<b>Recognition of the Special Award Recipients</b> .....	Richard E. Stamper
<b>Awarding of Honorary Degree to David L. Hannum</b> .....	Carl A. Cook, BS, MBA, HD <i>Board of Trustees Vice Chairman</i>
<b>Introduction of Honorary Degree Recipient and Commencement Speaker Karl W. Reid</b> .....	Carlotta A. Berry, BS, MS, PhD <i>Lawrence J. Giacoletto Endowed Chair and Professor of Electrical and Computer Engineering</i>
<b>Awarding of Honorary Degree</b> .....	Robert A. Coons
<b>Commencement Address</b> .....	Karl W. Reid, BS, MS, PhD <i>Chief Inclusion Officer, Northeastern University</i>
<b>Conferring of Undergraduate Degrees and Recognition of Students Anticipating Degrees</b> .....	Robert A. Coons
<b>Turning of the Tassels</b> .....	Erik Z. Hayes
<b>Conferring of Master's Degrees</b> .....	Robert A. Coons
<b>Greeting from Alumni</b> .....	Kedar D. Murthy, BS, MS <i>President, Alumni Advisory Board</i>
<b>Farewell</b> .....	Zariyah Robinson <i>Past President, National Society of Black Engineers</i>
<b>Closing Comments</b> .....	Robert A. Coons
<b>"Dear Old Rose"</b> .....	White Chapel Brass
<b>Recessional</b> .....	White Chapel Brass

# **Alma Mater**

*Music by Raymond Mech*

*Lyrics by Andrew Mech, PhD, Professor of Mechanical Engineering*

Here in central Indiana  
is the school we know is best.  
Rose-Hulman, Yes, our Alma Mater  
far surpasses all the rest.  
Sing her glories and her praises  
in every way she does excel.  
Rose-Hulman, you're our Alma Mater  
our Alma Mater loved so well.

Rose did more than set foundations  
for the work that was to come.  
The people here became as family;  
Rose became another home.  
Though we live at quite a distance  
and time has passed since our farewell,  
Rose-Hulman you have grown yet dearer  
our Alma Mater loved so well.

# **Dear Old Rose** **The School Fight Song**

*Words and Music by Malcolm C. Scott, Class of 1922*

Dear Old Rose  
The sweetest flower that grows  
Here's to your colors rose and white  
Here's to the ones who've kept them bright.  
Colors true for those who honor you  
Here's to everything you've done,  
Here's to every fight you've won.  
Dear Old Rose.



## HONORARY DEGREE RECIPIENT

### David A. Hannum

President and Chief Executive Officer  
Garmong Construction Services

More than 30 years of leadership as a fourth-generation business owner along with growing up around the family business and the experience of learned lessons from the generations before him have had David Hannum shaping Garmong Construction Services into the highly successful and respected business it is today.

Garmong Construction Services was founded in 1923 in Terre Haute, Indiana. Hannum joined the family business as its fourth-generation owner-president in 1989. He founded an engineering services company in 1990 and founded Garmong Development Co., LLC in 1996.

Since 1989, under Hannum's leadership, Garmong Construction Services has transitioned from local Terre Haute projects to larger projects in counties and colleges throughout Indiana. With this growth, the company now has expanded to have offices in Indianapolis and Evansville. Garmong Construction Services has grown from 10 employees in 1989 to more than 200 – many of them Rose-Hulman alumni.

Indiana Business Magazine has listed Garmong Construction Services among Indiana's fastest growing businesses during three of the past five years, including 2022.

Hannum's family roots run deep at Rose-Hulman, where David earned a mechanical engineering degree in 1981. He is one of 12 members of the Garmong/Hannum families to graduate from the Institute. That alumni legacy spans four generations, including two of David and his wife Kathy's five children: Rachael (Hannum) Lynch, a 2007 biomedical engineering alumna, and Eric Hannum, a 2012 mechanical engineering graduate, as well as David's father, Ken Hannum, a 1956 alumnus, and grandfather, Richard Garmong, a 1931 graduate.

David Hannum's most trusted and cherished business partner is Ralph Wagle, a 1983 civil engineering alumnus.

Hannum has been a Rose-Hulman trustee for the past decade, helping the Institute maintain its prestige among the nation's top undergraduate colleges for science, engineering and mathematics.

David and Kathy donated \$1 million in 2021 to establish a new scholarship fund supporting future graduates of Vigo County high schools to attend Rose-Hulman. The first scholarship recipient will be a first-year student at the college for the 2022-23 school year.

David Hannum has received numerous professional and community awards. In 2014, he received a Sagamore of the Wabash, the highest honor that can be bestowed by the Governor of Indiana. It is a personal tribute usually given to those who have rendered distinguished service to Indiana. In David's case, it honored his service as chairman of Indiana's Fire and Building Safety Commission from 2006-2013. Additionally, he was awarded a meritorious service medal from the Indiana State Fire Marshall for renovating building codes in response to the Indiana State Fair Pavilion disaster.

Hannum was recognized as one of the Indianapolis Business Journal's "Fast 25" in 2019 for the success of Garmong & Son and as Entrepreneur of the Year by Indiana University's Kelley School of Business.

His commitment to the community has included Hannum serving as president and board member of the Terre Haute Chamber of Commerce, board member of the Terre Haute Economic Development Corporation, and president of the Wabash Valley Contractors Association. He also has been actively involved in church and countless youth baseball and school activities.

In their spare time, David and Kathy (who has a bachelor's degree in mechanical engineering from Michigan State University) enjoy traveling and family time with their children and grandchildren.



## COMMENCEMENT SPEAKER & HONORARY DEGREE RECIPIENT

**Karl W. Reid, Ed.D., CDP**

Chief Inclusion Officer, Northeastern University

Director, Engineering PLUS Alliance

Dr. Karl W. Reid is the Chief Inclusion Officer at Northeastern University. He also holds the title of Professor of Practice in the Graduate School of Education in the College of Professional Studies.

Prior to joining Northeastern, Dr. Reid served for seven years as the Executive Director of the National Society of Black Engineers (NSBE), marking his return to the organization that gave him his first major leadership experience 32 years earlier.

A certified diversity professional, Dr. Reid has been a leading national advocate for diversity and inclusion, and increasing college access, opportunity, and success for underrepresented populations. As Director of the Engineering PLUS Alliance, he leads a National Science Foundation-funded national effort to achieve transformative, systemic, and sustainable change in representation of engineering. Dr. Reid came to NSBE from the United Negro College Fund (UNCF), where he oversaw new program development, research, and capacity building for the organization's 37 historically black colleges and universities and held the title of Senior Vice President for Research, Innovation and Member College Engagement.

Before his service at UNCF, Dr. Reid worked in positions of progressive responsibility to increase diversity at his alma mater, the Massachusetts Institute of Technology (MIT), which he left as Associate Dean of Undergraduate Education and Director of the Office of Minority Education. While working at MIT as Director of Engineering Outreach Programs, Dr. Reid earned his Doctor of Education degree at Harvard University. His dissertation explored the interrelationship of race, identity, and academic achievement for African American males in college.

Dr. Reid is the author of "Working Smarter, Not Just Harder: Three Sensible Strategies for Succeeding in College...and Life." He also is a founding member of the 50K Coalition, a national effort to produce 50,000 diverse engineering graduates annually by 2025.

Dr. Reid was born in the Bronx, New York, and grew up in Roosevelt, New York, a mostly working-class, African American community on Long Island. The high value his parents placed on education, and his admission to a well-resourced magnet high school near Roosevelt, put him on a track to follow his older brother to MIT, where he earned his undergraduate and master's degrees in materials science and engineering and was a Tau Beta Pi Scholar.

After graduating from MIT, Dr. Reid worked in the computer industry for 12 years in systems engineering, product management, sales, and consulting. In 1991, five years into a successful career with the IBM Corporation, Dr. Reid read Jonathan Kozol's "Savage Inequalities," a seminal book about educational disparities in the U.S., which sparked his passion for bringing about positive change through education of African Americans and other underserved populations.

Dr. Reid sits on the National Council for Inclusive Innovation at the United States Patent and Trademark Office; the Committee on Advancing Anti-racism, Diversity, Equity and Inclusion in STEM Organizations at the National Academy of Sciences, Engineering and Medicine (NASEM); the Grand Challenges Scholars Program Advisory Council; the American Society for Civil Engineers Industrial Leaders Council; and the Advisory Board of the American Council of Engineering Companies Research Institute. He also served on the NASEM Committee on Addressing the Underrepresentation of Women of Color in Technology, deans' advisory cabinets for the Harvard University School of Engineering and Applied Sciences and the University of Michigan College of Engineering.

Dr. Reid holds memberships in the National Association of Diversity Officers in Higher Education and the Society for Diversity. He is a frequent contributor to the national diversity dialogue, broadening participation in STEM, author of several commentary pieces, and he has been quoted in numerous articles in publications such as Forbes, The Wall Street Journal, U.S. News & World Report, and The Hechinger Report.



## THE ACADEMIC PROCESSION

In today's academic procession, the gown and hood indicate the degree held by the wearer. The hood is lined with the official color or colors of the college or university conferring the degree. Graduates of certain institutions wear gowns in the color of the university, faced down the front with velvet panels and with velvet crossbars on each sleeve. The velvet may be black or may be the color representing the field in which the degree was conferred.

### ROSE-HULMAN BACHELOR'S DEGREE ATTIRE

Rose-Hulman Institute of Technology bachelor's degree holders or candidates wear a black gown and a black mortarboard with a red and white tassel. Students graduating cum laude, magna cum laude, or summa cum laude wear gold honor cords.

### ROSE-HULMAN MASTER'S DEGREE ATTIRE

Master's degree hoods for Rose-Hulman Institute of Technology are black, lined with rose red satin and white satin chevrons, and edged in golden yellow velvet. With the gown and hood, a black mortarboard and red and white tassel are worn.

### CURRENT AND PAST TRUSTEES CHAIR

Black gown with red chevrons bordered in gold piping, and red front panels.

### TRUSTEES

Black gown with black chevrons bordered with gold piping.

### PRESIDENT

Red gown with black chevron bordered with gold piping. The front panels on the gown include the official school seal. The colors inside the hoods for the trustees and president represent the official school colors of old rose red and white.

### ETA KAPPA NU

Scarlet and navy cords signify membership in Eta Kappa Nu, the national electrical engineering honor fraternity.

### PI MU EPSILON

Violet, lavender, and gold cords signify membership in Pi Mu Epsilon, the national mathematics honor society.

### UPSILON PI EPSILON

Maroon and white cords signify membership in Upsilon Pi Epsilon, the international honor society for the computing and information disciplines.

### PRESIDENTIAL MEDALLION

The gold-plated Rose-Hulman Presidential Medallion carries the school seal on one side. The other side portrays a rendering of the Flame of the Millennium sculpture bordered by the phrase "Continuing Our Legacy of Excellence."

# SCHOLARSHIP HONORS

Students graduating with a scholarship index of 3.90 or higher will be graduated summa cum laude; those with a scholarship index between 3.60 and 3.90 will be graduated magna cum laude; and those with a scholarship index between 3.30 and 3.60 will be graduated cum laude. These honors are recognized by the display of gold honor cords at the commencement ceremonies and in appropriate fashion on the diplomas.

*	Cum Laude
**	Magna Cum Laude
***	Summa Cum Laude

† Honors Anticipated for Summer or Fall Completion candidates

## **Other Program Designations**

A	U.S. Army Commission
AF	U.S. Air Force Commission

## **Graduation Date Designations**

Special codes indicate students who completed their degree requirements prior to May 28, 2022.

Those designations are:

a	August 28, 2021
n	November 22, 2021
f	February 28, 2022

**Master Thesis or Engineering Management Project** indicated in *italics*

## **THE HEMINWAY GOLD MEDAL**

This award, established by the late Mrs. Sarah A. Heminway, is awarded to the graduating undergraduate student with the highest grade-point average. In the event of a tie, duplicate awards are given.

## **THE JOHN T. ROYSE AWARD**

The John Tuller Royse Award was inaugurated at Rose-Hulman to honor Mr. Royse in perpetuity for his many years of service to the college as a member of our board. The Royse tradition on the board continues today with John N. Royse an emeritus member.

The award consists of a bronze medal and cash honorarium to be made at commencement each year to the graduating senior who, in the opinion of the faculty and administrative staff, is considered to be our most outstanding graduate based on academic achievement, student leadership, participation in co-curricular activities, and general campus citizenship. The recipient must be nominated by a classmate, a member of the faculty, or administrative staff.

## **THE MOENCH COMMENDATION**

Herman A. Moench graduated from our school in 1929. He served as associate vice president and professor of electrical engineering for more than five decades. Moench helped shape the Rose-Hulman values that we all cherish today, including putting the student first, remaining humble while striving for excellence, and encouraging close student-teacher relationships.

In 1980, the first Moench Commendation was awarded. This is a person who is "not just a good student in the upper half of their class, but also has demonstrated exemplary character in the eyes of their peers and teachers; a person who has been influential in making Rose-Hulman a better place." The recipient is selected by a vote of faculty and administrative staff.



## A BRIEF HISTORY OF ROSE-HULMAN

Rose Polytechnic Institute welcomed an inaugural class of just 25 students in 1883 inside a towering, gothic structure at 13th and Locust streets in Terre Haute. The school was the brainchild of entrepreneur and philanthropist Chauncey Rose, who dreamed of creating an institute of higher learning “for the intellectual and practical education of young men.”

The institute’s heritage of educational excellence dates back to its earliest days, when the Board of Managers and a few other prominent community leaders, coaxed Charles O. Thompson, then-president of the prestigious Worcester Free Institute of Industrial Science, to take the leadership post at Rose. Under his guidance, the academic bar was set very high and has remained that way ever since.

The camaraderie and campus traditions that have long defined the student experience at Rose also started in its earliest days. By 1920, Rose freshmen were wearing “R” beanies to denote their newbie status and Rosie the elephant was established as the school’s mascot. Those and other traditions would survive a move to the country in 1922 when the campus transferred to its current location, where even more traditions were born, such as the annual Homecoming bonfire and voluntary (and sometimes involuntary) dips in Speed Lake.

Student enrollment began to accelerate on the new campus and would top 1,000 in 1969 under the leadership of then-President John Logan. The face of the campus also began to rapidly change, especially in the last quarter of the 20th century, when Cook Stadium, Hadley Hall, Oakley Observatory, Myers Center for Technical Research with Industry, Olin Advanced Learning Center and Olin Hall were all constructed. The institute took another major step in 1995 when the first female students were admitted under the leadership of President Sam Hulbert. Its physical infrastructure continues to grow and improve today under the leadership of President Robert A. Coons, with the recent addition of a state-of-the-art new academic building, the Kremer Innovation Center, the Pi-Vilion and the fully renovated Mussallem Union.

With growing student diversity and the addition of 1,100 acres of new property south of campus, the institute continues to build on the strong foundation laid by its visionary leaders, dedicated educators and hard-working students. With 23-consecutive years of No. 1 rankings from U.S. News & World Report and other recognitions, the institute, now with an enrollment of approximately 2,000 undergraduates and graduate students, remains firmly established among the leading engineering, math, and science colleges anywhere in the world.

# Rose-Hulman Institute of Technology

## 2021-22 BOARD OF TRUSTEES

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John N. Royse, HD (Emeritus)	Terre Haute, Indiana
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