

CALVIN
College

2006
COMMENCEMENT

Saturday
May Twenty
Two O'Clock

NOW THANK WE ALL OUR GOD

Martin Rinkart

Johann Cruger

Now thank we all our God with heart and hands and voices,
who wondrous things has done, in whom his world rejoices;
who from our mothers' arms has blessed us on our way
with countless gifts of love, and still is ours today.

O may this bounteous God through all our life be near us,
with ever joyful hearts and blessed peace to cheer us,
to keep us in his grace, and guide us when perplexed,
and free us from all ills of this world in the next.

All praise and thanks to God the Father now be given,
the Son and Spirit blest, who reign in highest heaven
the one eternal God, whom heaven and earth adore;
for thus it was, is now, and shall be evermore.

THE CALVIN ALMA MATER

Dale Grotenhuis

Celia Bruinooge

Calvin, Calvin, sing we all to thee;
To dear Alma Mater we pledge fidelity.
Forever faithful to maroon and gold,
Thy name and honor we ever shall uphold.

Calvin, Calvin, God has been thy guide;
Dear Alma Mater, thy strength He shall provide.
Be loyal ever to the faith of old.
God's name and honor we ever shall uphold.

ORDER OF COMMENCEMENT

Prelude: *Chorale and Alleluia* Howard Hanson
Processional: *Sine Nomine* Ralph Vaughan Williams
Pomp and Circumstance March No. 1 Edward Elgar
Calvin College Band, Tiffany Engle, Ph.D., conductor
Performing in the Fine Arts Center

***Opening Hymn:** *Now Thank We All Our God*

***Invocation:** Bastian A. Knoppers, B.A., Chair, Calvin College Board of Trustees

**Introduction of
Commencement Speaker:** Gaylen J. Byker, Ph.D., President

Commencement Address: "You Need Two Eyes"
Nicholas P. Wolterstorff, Ph.D., Professor of Philosophical Theology Emeritus,
Yale University; Professor of Philosophy (1959-1981) Calvin College

Presentation of Awards: Bradley W. Haverkamp, M.B.A., President, Calvin Alumni Association,
to Gerald S. Gabrielse, Ph.D., Class of 1973 and
to Charles P. Spoelhof, M.S., Class of 1951, Distinguished Alumni

**Remarks on Behalf
of the Senior Class:** Mary B. Horning, Student Senate President

***Litany for Commencement**

Conferring of Degrees: Joel A. Carpenter, Ph.D., Provost, and Gaylen J. Byker, Ph.D., President

Presentation of Diplomas

***The Calvin Alma Mater**

†**Recessional:** *Crown Imperial* William Walton, arr. W. J. Duthoit

* Audience standing

† The audience is requested to be seated until the faculty and graduates have exited.

*The 20 white roses and orchid on the platform are in memory of the joy and friendship of Rachele Goedhart.
August 21, 1984 – March 3, 2005.*

*The 22 yellow roses and lily on the platform celebrate the life and witness that marked the life of John Zoerhoff.
November 18, 1982 – March 18, 2005.*

The commencement ceremony is being professionally videotaped and photographed. Each graduate will have an opportunity to purchase videotapes and photographs of the event. Thus, we ask that friends of the graduates keep walkways clear for the camera crews.

LITANY FOR COMMENCEMENT

Liturgist:

There is none like you, O Lord,
nor are there any works like yours.

People:

All the nations you have made shall come
and bow down before you, O Lord,
and shall glorify your name.

Liturgist:

For you are great and do wondrous things;
you alone are God.

People:

Teach us your way, O Lord,
that we may walk in your truth;
give us an undivided heart to revere your name.

- Psalm 86

Liturgist:

You alone are our Sovereign Lord,
Source of all good things,
Sustainer of your creation.

People:

You alone are our Sovereign Lord,
freeing us from
reliance on our own understanding,
pride in our own achievements,
anxiety over our uncertainties.

Draw us into your holy and perfect presence.

Liturgist:

For those who leave Calvin College today
to continue a life of service in your kingdom,
We give you thanks, O Lord.

People:

For the renewal of minds,
for the cultivation of hearts,
for the giving of souls,
We give you thanks, O Lord.

Liturgist:

For formation as disciples of Christ
in mind, body, and spirit,
We give you thanks, O Lord.

People:

For learning, fellowship, friendships,
service, and growth in their years at Calvin,
We give you thanks, O Lord.

Liturgist:

Now, O Lord, strengthen and encourage these,
your servants,
as they go out into the world to shine your light.

People:

Send your Spirit that they may
act justly, love mercy,
and walk humbly with you, their God.

Liturgist:

May they not pursue success, but service.
May their lives be measured by faith, hope,
and love for all of your creation.

People:

May they shine your light to the world
by creativity and diligence,
humility and compassion,
gentleness and hospitality,
boldness and joy.

Liturgist:

We celebrate not only those who will go out
from this place today
as graduates of Calvin College,
but also those who have gone before them.

For the families and guests gathered here,
for the class of 1956,
for the Distinguished Alumni,
Gerald Gabrielse and Charles Spoelhof,
We give you thanks, O Lord.

People:

For humble service in your kingdom,
for gifts of time, creativity, energy,
and compassion in serving coworkers,
families, churches, and the world,
We give you thanks, O Lord.

Liturgist:

For showing more of yourself
through their lives and work,

as they comfort the sick, the suffering,
the lonely, and the oppressed
as they bring hope and healing to a hurting world,
as they teach and lead in their chosen vocation,
We give you thanks, O Lord.

People:

As you have blessed and guided them,
bless us all with lives of learning and growing.

Liturgist:

And now, O Lord, as we seek
to love and serve you,
may we rejoice in the power of the Holy Spirit.

All:

May your Spirit make us wise;
may your Spirit guide us;
may your Spirit renew us;
may your Spirit strengthen us

so that we will be strong in faith,
discerning in proclamation,
courageous in witness,
persistent in good deeds,

Until the return of our Lord Jesus Christ
and the dawn of the new heaven and new earth.

Through Jesus Christ our Lord, Amen.

COMMENCEMENT SPEAKER

Nicholas Wolterstorff, Ph.D., Class of 1953

Nicholas Wolterstorff was born and raised in rural southwestern Minnesota to parents who had emigrated from the Netherlands. His mother died when he was three years old. His father was a woodworker following generations of woodworkers, so Nick's life was infused with a reverence for wood – its natural sheen and whorls. His father remarried, and the family moved to Edgerton, Minnesota, the hometown of his new stepmother. She brought into their lives a large, feisty, bright and passionate family, and the relatives congregated each Sunday for dinner at the Wolterstorff home. So as a young boy, his life was marked by a family, church and community of poor, hard-working, pious, and intelligent Reformed Christians. All were faithful church-goers, with a faith that centered on the Bible. He was taught to read the Bible as doctrine and as narrative. Wolterstorff writes that the theology and faith tradition of his birth was sacramental, and its “aesthetic was simplicity, sobriety and measure.”

Wolterstorff attended Calvin College and graduated in 1953. He says Calvin College, for him as a young man, was “an instrument of grace.” Calvin offered him a “world of dazzling brightness,” and was a place where he came to understand his faith tradition and thus himself. He was gripped by the challenge of “plunging into the culture of the West – its literature, its philosophy, its theology, everything,” in the light of a Christian perspective. His teachers included William Harry Jellema, Henry Stob, and Henry Zylstra – and they influenced his future life as a philosopher, scholar and writer. He continued his education at Harvard University, earning his Ph.D. in 1956. He came

to Calvin as a professor of philosophy in 1959, and spent thirty years in the Calvin classroom.

In 1989 Wolterstorff went to Yale University, where he served as the Noah Porter Professor of Philosophical Theology, and a fellow of Berkeley College. He has been a visiting professor at Princeton, Notre Dame, and the Free University of Amsterdam. He has given the Gifford Lectures at St. Andrews University, the Wilde Lectures at Oxford University, and the Stone Lectures at Princeton Seminary. He has been president of the American Philosophical Association and the Society of Christian Philosophers. His list of books and publications fills several pages on topics ranging from ontology, reason, art, education, justice and peace, the ethics of belief, epistemology, Christian teaching, ethics, and on the death of his son in a mountain-climbing accident.

Wolterstorff has remained a close colleague and friend of Calvin College and now stands with his former Calvin models and mentors, and his long-time friends, Alvin Plantinga and Richard Mouw, as a scholar who has shaped the theological and philosophical vision of Calvin College, Christian Schools International, the Calvin philosophy department, and the Society of Christian Philosophers. Plantinga, Wolterstorff, Mouw and William Alston were instrumental in the founding of the Society of Christian Philosophers and its journal, *Faith and Philosophy*. In 2001 he became professor emeritus at Yale. He and his wife, Claire Kingma Wolterstorff, a 1955 Calvin graduate, have a home in Grand Rapids. They have spent this present academic year in Charlottesville, Virginia, where he has been a Senior Fellow in the Institute for Advanced Studies in Culture. They have four sons, two daughters-in-law, and seven grandchildren.

MESSAGE FROM THE FIFTY-YEAR REUNION CLASS

Dear “0-Sixers”, Class of 2006:

You are the Lights of the World! No class in history is more prepared to make this world a better place than you are. Making the world a better place is called Kingdom Building. It is Jesus’ prayer that Our Father’s will be done on earth as it is in heaven. That is your mission—making the world safer, more efficient, increasingly just, beautiful and healthy. Dedicate everything you do to creating an environment that is more thoughtful, meaningful, more inclusive, educated, and abounding with hope and love. No class ever has been better equipped than you for this task.

You are standing on the shoulders of all of us who have gone before you. You see farther and better. You can reach places and spaces we couldn’t see, or were too reserved, to reach. You embrace colors and creeds we were distant from. You care for Creation in an inspiring way we never imagined. Every one of you has equal opportunities in an incredibly connected world.

Live every day so that those you meet are more hopeful. Show them there is goodness, not just selfishness and meanness, in this world. Demonstrate generosity and

helpfulness so people experience goodness that opens them to God’s presence (Matthew 5:16).

May your life be shining with excellent work, high integrity, fair play and compassion. May you reflect the love of Jesus in all your relationships. Sprinkle kindness and encouragement, friendliness, and good humor on everyone you meet. You will strengthen and brighten their lives. Remember Jesus’ words “when you show kindness to anyone you show it to me.”

The Class of Calvin College 1956 is proud to share this great day with you. We are more secure, hopeful and confident because of people like you. But we Fifties Folk possess one quality in abundance we want to share with you. It is “commitment”. We hold fast to our friendships, our marriages and our faith. We hope and pray that you too will be known for strong committed living.

Congratulations on a great achievement, an excellent education.

Jim Kok, author of *The Miracle of Kindness*, member of the Class of 1956

DISTINGUISHED ALUMNI

The Calvin Alumni Association is proud to present three alumni with the Distinguished Alumni Award. Persons honored in such a way have been chosen by an independent selection committee comprised of alumni, faculty, and staff and are endorsed by the Calvin Alumni Association Board.

Recipients of the Distinguished Alumni Award have made significant contributions to their fields of endeavor, are recognized by their associates for outstanding achievements, and manifest a Christian commitment that reflects honor upon Calvin College.

Gerald Gabrielse, Ph.D., Class of 1973

Gerald Gabrielse's research specialty, antimatter, sounds more like the stuff of science fiction than nuclear physics. In fact, it is the combination of matter and antimatter that propels *Star Trek's* fictional Starship Enterprise from galaxy to galaxy.

Yet, Gabrielse '73 points out, his experimentation is actually the study of the simplest of particles. "We study just one electron or one antiproton or a few helium atoms at a time," he said.

As simple as Gabrielse makes that sound, creating, separating, collecting, and slowing the particles is about as complex a science venture as one can imagine. That's why it is performed in only a few places in the world.

The Center for European Nuclear Research near Geneva, Switzerland, is one of those places and is where Gabrielse conducts his antimatter research.

It is here that Gabrielse, the Leverett Professor of Physics at Harvard University, leads an international team of researchers called ATRAP (for antihydrogen trap). They study antimatter particles at about 455 degrees below zero.

"We capture antimatter and then look at it closely to see if we can detect any differences between a proton and an antiproton (which has the opposite electrical charge)," he said. "In experiments at Harvard, we suspend one electron in empty space while we measure its properties."

Gabrielse and his co-researchers' most recent achieve-

ment is the measuring of one electron's magnetic moment.

"If you imagine that inside of each electron is a little bar magnet, then we were able to measure the size of the magnet to 1 of 1 to the 12th power," he said. "What this does is it allows us to test the most fundamental theories; we are looking to see if we understand reality. No one has ever probed the electron at this level of accuracy. We can now check if what has been calculated is the same as what we've been able to measure."

Successes such as this are what invigorate his research, he said. "We tend to focus on fundamental notions and test them; so far we have only confirmed our understanding of the way things are. If we were to topple a basic theory, a huge revision would be required."

For example, theory argues that antimatter would behave identically to regular matter in terms of gravitation. If Gabrielse and his team were to find that this is not true, it would call for a reformulation of the most basic theories and ideas, he said.

Gabrielse, though, isn't looking to change reality, only to study God's creation.

"I am a Reformed Christian scientist," he said. "That is really not so extraordinary. I believe it makes God happy when I try to figure out how he put the world together."

His research is an attempt to do that. "I do not believe that science and the Bible are in conflict. However it is possible to misunderstand the Bible and to misunderstand science," he said. "It is important to figure out what of each might be misunderstood."

In his day-to-day experiments, there are many challenges. The result of some of those challenges has also led to some practical applications, which is no surprise in the world of science, he said.

"We use lasers every day: in CD players, at the grocery store. We carry many transistors in our pocket every day, too. Neither was invented by someone trying to make something practical that would revolutionize our culture," he said. "When we push technology really hard, sometimes

we invent things to solve our problems.”

As a result, Gabrielse holds a patent on a shield that protects sensitive equipment, such as a hospital's MRI (magnetic resonance imaging) machines, from stray magnetic fields.

“In one experiment, our magnetic field kept changing,” he said. “At one point, I said, ‘I'm cooked. What am I going to do about this?’ That led to the shield invention.”

Also, a trap designed by ATRAP to hold antimatter is being used to hold drug compounds so they can be analyzed more precisely than ever before. This could lead to new and better performing drugs.

Gabrielse's work is highly regarded by his colleagues.

“His work is absolutely first magnitude and is the sort of thing of which Nobel prizes are made,” wrote Marlan O. Scully, Director of the Institute for Quantum Studies at Texas A&M University and Professor at Princeton University.

Added Alan Kostelecky, Distinguished Professor of Theoretical Physics at Indiana University: “Success in an endeavor of this magnitude requires an individual with exceptional physics and engineering ability and outstanding leadership qualities, which Professor Gabrielse evinces in full measure.”

In addition to his cutting-edge research, which has him commuting to Switzerland weekly for at least one-half of the year, Gabrielse continues to teach in the Harvard Physics Department, involving many of his students in his research.

“As a student at Calvin, I had excellent professors,” he said. “John Van Zytveld provided me with an excellent opportunity to develop my lab skills. This is when I came to the realization that this type of work was a lot of fun. I hope to provide my students with the same experience as I was able to take part in as a student.”

Gabrielse is the recipient of numerous fellowships, awards and honors, including Harvard's Levenson Prize for Excellence in the Education of Undergraduates, the Harvard Ledlie prize for outstanding research, the Davison-Germer prize of the American Physical Society, and the Alexander von Humboldt Research Award. He also has served as a member of the Board of Trustees at both Calvin and

Trinity Christian College, and was twice a delegate to the Christian Reformed Church synod. He gives upwards of 25 outside lectures on science each year — some of these popular science lectures and some on science and religion.

Gabrielse lives in Lexington, Mass., where his wife, Ellen, is an English teacher at Lexington Christian Academy. His son, Joshua, graduated from Calvin and is a teacher with the Teach for America program. His daughter, Abigail, graduated from Harvard and is a corporate technical writer. Daughter Deborah is a 2006 graduate of Simmons College in Boston.

Charles Spoelhof, M.S., Class of 1951

“You push the button, we do the rest” has been the slogan of the Eastman Kodak Company since its earliest days.

Sounds simple enough, but behind that button pushing is a lot of complicated technology, some of which Charles Spoelhof '51 was involved with throughout his 32-year career with the company.

Starting as an optical engineer for Kodak in 1954 and retiring as a Vice President in 1986, Spoelhof helped develop optics, cameras, film and processing techniques used in everything from commercial cameras to reconnaissance missions to space exploration.

Spoelhof was hired as a young engineer just as the Cold War was starting to heat up. Early on he was immersed in designing specialized cameras and film for aerial reconnaissance.

“During the Cold War, Russia was a very closed and threatening society,” Spoelhof said in an interview with Calvin's *Spark*. “We wanted to know what their military buildup was, and this was the most reliable way of finding out.”

Spoelhof was involved in several different reconnaissance projects, including the development of a camera that transmitted images from satellite. His work, though exciting, was intense and highly classified.

“I could tell my wife nothing about what I was doing,” said Spoelhof, who still holds security clearance.

A most intense period of work was during the early 1960s, when U.S. spy plans and satellites spotted Soviet missiles being assembled in Cuba. President John F. Kennedy demanded definitive proof of the missiles before confronting Soviet Premier Nikita Khrushchev.

“Pictures were being taken daily and then flown in and processed. We had photo interpreters that were taking the film right off of the processors,” he said. “There were thousands of feet of film.”

Because of the technological capabilities of the cameras being used, Kennedy was able to confront Khrushchev, and a much larger confrontation was averted.

In fact, at an awards presentation in 2000 at which Spoelhof was recognized as a Pioneer of National Reconnaissance, Central Intelligence Agency Director George Tenet credited Spoelhof and 45 other honorees with providing the information that prevented World War III. The data collected limited the arms race and initiated the space age because the first application of satellites was for reconnaissance purposes, Tenet said.

The ushering in of the space age created new projects for Kodak, and thereby for Spoelhof. In the late 1960s, he was involved with Kodak’s partnership with NASA in developing lunar photography.

He contributed to the design of the lunar orbiter, which resulted in 99 percent of the moon being photographed, and was instrumental in finding landing sites for the Apollo astronauts. In this way, Spoelhof was able to pursue his lifelong interest in astronomy.

“I always dreamed of being a scientist,” he said. “Astronomy particularly fascinated me. While in college, though, I knew that I didn’t have the resources to continue going to school. Engineering seemed like a more logical choice.”

He said he is grateful for the foundation in education he received at Calvin: “I remember taking the philosophy of science course, which very clearly tied science in with faith. Any time you’re challenging what has been done before, your faith is very important in keeping you firmly grounded.”

Toward the end of his career at Kodak, Spoelhof worked on developing digital technology, which the government wanted for more convenient and less cumbersome reconnaissance.

“The new technology came on like Niagara Falls,” Spoelhof said of today’s commercial and consumer use of the digital camera. “We expected it to come on a bit sooner and a bit slower.”

Shortly after his retirement from Kodak, Spoelhof’s expertise was called upon to help fix the Hubble Space Telescope. After its launch in 1990, the \$1.5 billion observatory started sending back fuzzy images to Earth. High hopes for the world’s largest orbiting public space telescope were dashed.

“I was asked to serve on a commission of six to investigate what went wrong and how to fix it,” Spoelhof said. “We found the surface of the primary mirror to be off by 1/50th of the diameter of a human hair. An optical team was called in to ‘fix the prescription,’ and to this day the telescope is causing the revolution in astronomy that was expected more than 15 years ago.”

Spoelhof’s connection to Calvin has continued throughout his retirement. He travels from his home near Rochester, N.Y., twice a year to review projects and offer guidance to senior engineering students.

“Each year I also give a seminar to students and it’s always on a new topic that I’ve been studying,” he said. “This is very satisfying work for me.”

Spoelhof has received numerous honors and awards, including the aforementioned Pioneer of National Reconnaissance recognition, election to the National Academy of Engineers and NASA’s Apollo Achievement Award.

“Under his leadership Kodak was able to make significant contributions to our government’s efforts in space exploration as well as national defense,” wrote Frank Zaffino, a former Vice President at Kodak, in support of Spoelhof’s nomination. “He is not only a man of great intellectual ability, but also of great character and integrity.”

Spoelhof and his wife, Kay, have four children, three of whom are Calvin graduates (Beth is a former art education teacher; Philip is a chemist; Gordon is a computer engineer; and Ronald is an aerospace engineer). Charles and Kay Spoelhof have nine grandchildren.

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CANDIDATES FOR DEGREES AND CERTIFICATES 2005-2006

HONORS GRADUATES

These students have received commemorative medallions for their completion of all requirements in the Calvin College Honors Program.

Ashley J. Adams Honors in Nursing	David W. Bratt Honors in Philosophy Honors in Asian Studies	Nathan A. McCarron Honors in Political Science	Melissa K. Smith Honors in Asian Studies
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Matthew R. Bloem Honors in History Honors in English	Laura A. Guichelaar Honors in Biology	Duan (David) Qu Honors in Engineering (Electrical)	Emily M. Velthouse Honors in Spanish
Sarah A. Bodbyl Honors in Biology	Chelsey L. Harmon Honors in History	Alexis E. Reynolds Honors in Physics	Elisa J. Verde Honors in Biochemistry
Nicholas P. Bolt Honors in Psychology	Tricia L. Huizenga Honors in Business	Paul B. Rietema Honors in Economics Honors in Philosophy	Catherine E. Vincent Honors in Engineering (Mechanical)
Irene E. Borngraeber Honors in Art History	Rebecca M. Jelsema Honors in History	Laura A. Robertson Honors in Public Accountancy	Kimberly D. Webster Honors in Interdisciplinary Study of Cultural Communication
Rachel E. Borycz Honors in English	Kingsley C. Kanu, Jr. Honors in Engineering (Mechanical)	Steven M. Roels Honors in Biology	Rachel L. Weller Honors in Nursing
	Justin L. Kent Honors in Computer Science	Eric A. Rudie Honors in Philosophy	Stephanie M. White Honors in English
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	Emily A. Martin Honors in Sociology		

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William D. Krzymowski
Jennifer L. Langefeld
Elizabeth S. Langeland
Courtney E. Lasater
Joshua D. Leo
Erica R. Lien
Anna F. Loritsch
Jason M. Los
Andrew D. Love
Ian W. MacLurg

Kimberly J. Madden
Asher R. Mains
Emily A. Martin
Adrienne N. Martinez
Jason P. Martzke
Darrin C. Matter
Jeffrey B. McBride
Matthew T. McCully
Justin T. McFarland
Nathan J. Medeiros Ward
Andrea L. Miller
Kristen M. Mitchell
Nicholas W. Monsma
Jung Hyun Nam
Elizabeth M. Nanninga
Paolo P. Navarro
Alisha A. Nobel
Hannah C. Old
Erin J. Ondersma
Todd M. Palmer
Daniel H. Park
Leah C. Petersen
Dani L. Peterson
Laura C. Peterson
Jeirid S. Pfeiffer
Danielle M. Plug
Laura S. Poortenga
Anne C. Prins-Van Huisen
Andrew A. Raelson
William A. Reed
Lorien L. Reese
David J. Riley
Sara M. Rip
Kathryn T. Ritsema
Anna G. Rodenberg
Eric A. Rudie
Nathan A. Rusch
Katherine A. Sall
David A. Salverda
Matthew E. Sandefer
Benjamin J. Schaafsma

Michelle L. Schaap
Aaron M. Schepers
James E. Schmidt
Joanna R. Schmit
Joel A. Schramm
Brenda M. Schut
Courtney N. Schutt
Michael G. Schweiger
Elizabeth E. Senefeld
Katie L. Shaarda
Joanna E. Shalvoy
Emily L. Shatto
Ada M. Slofstra
Brenton G. Smith
James A. Smith
Melissa K. Smith
Melissa Solano
Mark S. Speyers

Angenette M. Stacer
Lauren M. Stauffer
Ursula R. Stearley
Sarah E. Steen
Benjamin P. Stoep
Anita Suparta
Kelly A. Swierenga
Anthony D. Sytsma
Evan H. Talen
Angeline M. Tanis
Scott W. Tanis
Eric D. Tans
James W. Ten Haaf
Ryan D. Terpstra
Brianna M. Thierfelder
Layne E. Thomsma
Joshua G. Usadel
Ashley P. Uyaguari

John-Harmen Valk
Jonathan R. Vance
Sarah M. Vanden Bosch
Jennifer L. VanderHeide
Rosemarie B. van der Jagt
Carolyn C. Vanderkooy
Michael S. Vander Meulen
Matthew R. VanderPloeg
Eric S. Vander Veen
Melanie A. VanderWal
Aaron K. Vanderzwan
Peter J. VanDyk
Laura M. VanHollebeke
Rachel J. Van Klompenberg
Jill N. Van Noord
Jolanda J. van Vliet
Matthew A. Veenstra

Peter F. Velthuis
Rachel I. Wahl
Kimberly D. Webster
Carrie L. Wegman
Bethany A. Weir
Amy L. White
Stephanie M. White
Kyle J. Wigboldy
John T. Will
Sarah A. Winkle
Sasha E. Wolff
Laura A. Wright
Sung-Hyun Yang
Rachael L. Ziegler
David A. Zoerman
James Zwier
Laura B. Zwier

**BACHELOR OF ARTS OR
BACHELOR OF SCIENCE**

**General Science:
Science majors – Biology,
Chemistry, Computer Sci-
ence, Geography, Geology,
Environmental Studies,
Mathematics, Physics**

Nsikak A. Attang
Christopher J. Bandstra
Jordan L. Barnhart
Brandon J. Beach
Kristin J. Bill
Katherine L. Block
Sarah A. Bodbyl
Philip S. Boonstra
Kimberly S. Bosscher
Dietrich J. Bouma
Sarah J. Bowman
Matthew L. Broekhuis

Courtney N. Busch
Rachel L. Carman
Rachel L. Cichowski
Ryan E. Colburn
Jacob S. DeHamer
Brian R. DeKorne
Jonathan C. Dudley
Cheryl L. Dyksen
Drew S. Dykstra
Nathan P. Edwards
Nicole D. Ellis
Helen Marie F. Etya Ale
Joshua E. Glupker
Justin J. Grasmeyer
Laura A. Guichelaar
Timothy J. Gustafson
Jared M. Habeck
Ashlee M. Hardy
Alissa A. Hare
Christine J. Hendricks
Justin L. Heslinga
Peter K. Hoekman
Craig R. Hoekzema
Holly M. Hoffman

Stephanie R. Hogendoorn
Adam M. Hollemans
Frank M. Holly
Tamar I. Hunse
Michelle R. Huyser
Jonathan H. Jerdan
Julia A. Kaseman
Justin L. Kent
David J. Kroondyk
Hyun Jung Kwak
Alissa J. Landenberger
Anna E. Lindborg
Peter J. Lion
Christina M. Ludema
Robert M. Marcotte
Paul T. Mellema
Andrew P. Meneely
David P. Meyer
Erika E. Miersma
Jennifer R. Moos
David W. Morrison
Andrew W. Mundwiler
Alan J. Musch
Mary E. Nyhuis

Tara D. Recker
Alexis E. Reynolds
Brian A. Roelofs
Steven M. Roels
Mark H. Rottman
David M. Rubush
Sara E. Salavarría
Elizabeth E. Schut
Katrina L. Sink
Trevor J. Smythe
Rebecca L. Spaan
Daniel Spalink
Remington J. Steed
Johanna L. Stronks
Jason M. Sypkens
Sara E. Sytsma
Che-Yuan Tang
David O. Tannor
Margaret R. Tassaró
Jesse A. Test
Deena Thomas
Ashley N. Tittle
Mark D. Tucher
Rachel L. Unema-Vannette

Kelly R. Urness
Timothy O. VanderKoooy
Sean M. Vander Meulen
Kimberly L. Vanderzee

Barry A. VanDyke, Jr.
James S. Van Hall
David L. Vannette
Matthew P. Van Woerkom

Elisa J. Verde
Christopher J. Wenstrom
Rebecca L. Winkle
Rachel W. Wolf

Andrew R. Yazzie
Laura K. Zandstra
Robert E. Zeilstra
Danielle C. Zwier

**BACHELOR OF ARTS OR
BACHELOR OF SCIENCE**

**General Program: Social
Science majors – Business,
Criminal Justice, Econom-
ics, Physical Education,
Political Science,
Psychology, Sociology**

Jeanna L. Abbas
Mayom B. Achuk
Kara E. Adama
Lindsey M. Adema
Deborah S. Anderlohr
Matthew D. Anderson
Elisabeth A. Auwers
Travis N. Avery
Brandon L. Baar
Lucas J. Bagnall
Malari A. Barber
Karyn A. Bartels
Seth W. Beals
Sarah E. Berg
Mary E. Boerema
Ratko Bojanovic
Nicholas P. Bolt
Brian A. Booth
Allison J. Busch
Luke S. Bouman
Benjamin J. Buikema
Kyle R. Bushoven
Steven T. Buter
Tyson W. Capel
Seun Do Chae
Huoy Chhay

Hyun-Mi Cho
Soo-Gwang Cho
Joshua D. Claypool
Jeanne A. Cole
David C. Cooper
Justin S. Daining
Daniel L. DeKorne
Kathryn L. De Nooyer
David A. Deschamps
Samuel L. De Walle
Zachary F. Doering
Rebecca A. Doff
Anna E. Dorris
Andrew T. Draayer
Tracy A. Dykstra
Jessica J. Ecklund
Joel D. Eggebeen
Ruth A. Elders
Jeffrey C. Elzinga
Ellen R. Erichsen
Matthew S. Evans
Kristin N. Everhart
Jennifer N. Ferri
Robert M. Fisher
Amber S. Flora-Holmquist
Emilee R. Frost
Sarah R. Funk
Matthew P. Gallagher
Erika L. Ganster
David G. Garber
Mary J. Gardner
Nicholas B. Good
Audra L. Groenendal
Brian J. Groenewal
Joshua G. Gulbranson
Dong Jin Ha
Zachariah M. Hackman

Daniel C. Haines
Daniel S. Hase
Heather M. Hass
Daniel R. Heffner
Andrew J. Hekman
Rachael E. Henson
Daniel A. Hernandez
Allison J. Heyboer
Kathryn L. Hickok
Daniel C. Hinkle
Reilly D. Hobbs
Heidi M. Hodek
Alison B. Hoff
Alyssa G. Homan
Jessica L. Hoogenboom
Heidi J. Hoving
Mishelle Huaman Lopez
Meghan L. Huber
Tricia L. Huizenga
Daniel G. Janke
Gloria F. Jea
Helen L. Johnson
Justin E. Kamps
Jodi S. Keegstra
Aaron P. Kennedy
Michelle L. Kilyk
Suzanna E. Klaucke
Jesse V. Kleinjan
Katlyn A. Kline
Erin N. Kolalis
Paul W. Koldenhoven
Timothy M. Komarek
Richard J. Kong
Levi J. Kool
Daniel D. Kotman
Stuart B. Kotman
Michelle C. Kraai

Justin A. Kreuze
Brian R. Kuipers
Hyun Jin Kwak
Lien M. Le
Jana B. Lemmen
Kathleen M. Lewis
James A. Ligtenberg
Chandra M. Lochan
William T. Lowery
Rachel E. Mathias
Christopher M. Matthews
Nathan A. McCarron
Luke R. McReynolds
Nathanael P. Meckes
Gregory M. Mejeur
David J. Menn
Johanna R. Meyerhoff
Chad R. Miles
Phara L. Morame
Jonathan R. Mosier
Pamela M. Myers
Faith W. Nguru
Ryan D. Nickel
Stephen L. O'Berski
Alicia K. Olson
Dirk B. Olson
Ann K. Ophoff
Benjamin M. Ottenhoff
Thomas J. Paauw
Christopher R. Palmer
Hannah Park
Kristin L. Pell
John S. Peterson
Kelli J. Petroelje
Amanda L. Pfeiffer
Bridger L. Pierce
Erica Postema

Matthew D. Price
Jeremy S. Prins
Kevin R. Prins
Andrew J. Reimink
Jeffrey L. Rhoads
Joseph J. Rice
Paul B. Rietema
Lies A. Rosema
Rachel E. Rydingsward
Marique H. Ryzebol
Yoshiko Sano
Laura B. Scharphorn
Catie J. Schierbeek
Emily J. Schreur
Katherine A. Schultz
Howard M. Sieplinga
Seth A. Sinclair
Aaron G. Snippe

Ishwinder Sodhi
Christian M. Sorensen
Amelia C. Spring
Michael J. Stegink
Micah P. Sterenberg
Clark S. Stevenson
Matthew D. Stone
Emily A. Struck
Michael J. Sullivan
Jessica E. Tameling
Jonathan D. Timmer
Katherine L. Timmermans
Michael J. Tolsma
Kyle T. Trehwella
Lauren A. Urbanek
Karla J. VanBeveren
James M. Vanden Berge
Janelle C. Vandergrift

Michael W. Vander Kooi
Peter J. Vanderveld
David M. VanderZee
Rachael A. Van Eck
Tyler W. VanEps
Dirk M. vanEyck
Brian J. Van Harken
Robert W. Van Harken
Mara B. Van Heukelem
Heather J. Van Mouwerik
John T. VanWylen
Rachel L. Veld
Nathaniel J. Veltman
Melanie C. Venema
Heather L. Venn
Nicholas C. Verkuyl
Chad R. Vickery
Linnea E. Vincent

Kurtis S. Visker
Andrew D. Vlietstra
Eric J. Vredeveld
Andrea L. Wagner
Hannah M. Wakley
Douglas A. Walters
James R. Warden
Steve Watkins
Joseph D. Westra
Amanda J. Whitcomb
Matthew F. Wiechel
Michael D. Wolf
Amina J. Yakubu
Sierra R. Yazzie
Carolyn C. Yu
Lisa J. Zigterman
Kara J. Zuidema
Nathan T. Zwagerman

**BACHELOR OF ARTS OR
BACHELOR OF SCIENCE**

**Education Program:
Elementary Education**

Vanessa Acosta
Daniel A. Bardolph
Rachel M. Bazuin
Noell C. Berghuis
Laura J. Bergman
Amanda M. Camp
Stephanie L. Clow
Janelle M. CremÉ
Ruth J. Davis
Julia E. Dekker
Amanda E. Devries

Mallory M. DeWeerd
Elizabeth J. Dykhousé
Katherine S. Eisen
Melissa S. Ensing
Melissa S. Goorhouse
Chad L. Gorton
Alicia J. Gritters
Suzanne N. Gundlach
Leah E. Haan
Eryn J. Hannink
Brandon M. Helder
Louise M. Henshaw
Amy S. Hirdes
Sandra M. Hooey
Anita J. Huizenga
Megan M. Huizinga
Peter J. Ippel

Matthew P. Jen
Laura J. Kladder
Shawna A. Knetsch
Liza J. MacDonald
Tara N. Meekhof
Laura G. Miersma
Bridget E. O'Malley
Kristina A. Plaisier
Rachel M. Pollard
Lisa M. Russcher
Sarah M. Shubitowski
Kelli M. Sieplinga
Andrea J. Slorf
Heather N. Smith
Rachel M. Smith
Jaclyn K. Snow
Kristiana J. Tarantowski

Heather E. Treick
Julie M. Vanden Ende
Melissa B. Van Gennep
Kara J. VerMerris
Lynn P. Visser
Adam B. Wall
Britni D. Wells
Katie M. Wigger
Julie A. Winkle
Jennifer E. Wozniak
Su Jin Youn
Brenda J. Zaagman
Amy J. Zeilstra
Sheri L. Zondervan
Megan E. Zwier
Katherine E. Zylstra
Kelly A. Zylstra

**Education Program:
Secondary Education**

Christopher D. Achterhof
Michael J. Aggen
Megan L. Alderink
Kevin G. Anderson
Joseph D. Baillargeon
Jadan D. Barthel
Austin B. Benthem
Joel T. Bont
Briana J. Cady
Gregory J. Cady
Kristin M. Datema
Matthew B. DeHoog

Michele L. DeJong
Sarah E. DeVries
Emily C. Dozeman
Jessica L. Dubuc
Kira L. Ellens
John A. Engbers
Sarah A. Gonzalez
Erin J. Holwerda
Adam M. Horos
Rebecca K. Huron
Bradley A. Jansen
Tara L. Kamps
Helen E. Karsten
Rebekah S. Kent
Allison L. Kleinsasser

Brian J. Koetje
Kristin A. Kosowski
Michelle R. Lassa
Christina A. Marchlewski
Kerin B. Meengs
Rachel P. Meyer
Robert D. Millett
Leanne A. Oegema
Brandon M. Oldenbroek
Lindsey J. Polyock
Meredith L. Riemersma
Jennifer L. Roberts
Brian C. Rozema
Valerie D. Saarloos
Jeffrey W. Schipper

Laurel C. Schwander
Erin M. Slenk
Ryan W. Smith
Carmen L. Smits
Jeffrey D. Stoel
Kaelyn F. Sullivan
Zachary M. Van Denend
Kimberly J. VanDerKolk
Audrey J. Van Essendelft
Kristin L. vanEyck
Emily M. Velthouse
Erin L. Voss
Philip J. Vreeman
Jill M. Walters
Nathan G. Weemhoff

**Education Program:
Special Education**

Ruth K. Clifford
Julie B. Diekema
Stephanie A. Folkring
Connie L. Garlick

Emily A. Glancy
Brianna D. Karsten
Karin E. Klockars
Lindsay J. Rooney

Megan L. Van Dommelen
Carleen S. Van Wyngarden
Megan E. Venhuizen
Heidi S. Vermeulen

**BACHELOR OF SCIENCE
IN ACCOUNTANCY**

Ryan E. Fischer
Jamie L. Gerritsen
Linda A. Heilman
Renee M. Hulst
Timothy R. Jipping

Adam F. Kinder
Will T. Krueger
Brian J. Rooney
Thomas D. Sytsma
Ryan N. Vander Bent

David G. Veeneman
Jenny C. Veldkamp
Jessica M. Wills
Mayen M. Wol

**BACHELOR OF
SCIENCE IN PUBLIC
ACCOUNTANCY**

Andrea B. Berkimer
Abigail L. Gulbranson

James R. Kotman
Laura A. Robertson

David M. Steenstra
Brian J. VanDyken

**BACHELOR OF
COMPUTER SCIENCE**

Scott C. Admiraal
Andrew J. Buter

Philip E. Davis
Denise L. Dykstra

Jason G. Roelofs
Timothy L. Shattuck

**BACHELOR OF SCIENCE
IN ENGINEERING**

Kathron T. Anderson
Daniel I. Ateru
Ashley M. Baker
Larae J. Baker
Maxine S. Bent
Lynnelle E. Berkenpas
Jeffrey T. Blech
Patricia J. Brinks
Benjamin R. Bufford
Thomas A. Burry
Daniel E. Clark
Matthew J. Cosnek
Joshua M. Cypher
David A. Dickensheets

Nicholas R. Ellens
Ubongabasi I. Essien
Jerney Gajadhar
Nicholas J. Goote
Monika Z. Gunnar
Christopher W. Hanchett
Michael J. Heslinga
Scott C. Heupel
Jared A. Heys
Wesley P. Hoekman
James L. Hoekstra, Jr.
Bradley C. Holkeboer
Meredith C. Hoppe
Matthew R. Hulst
Brad A. Jansen
Joshua A. Jarrard
Adam C. Jones

Luke P. Joyce
Chijioke K. Kanu Jr.
Bryan R. Klingenberg
Knoa I. Knapper
Marcus L. Krosschell
Steven T. Krueger
Benjamin E. Kuiken
Jon A. Larsen
Eric S. Lundy
Andrew J. Lynch
Peter A. Malefyt
Clarence R. Medema, III
Michael D. Moselle
Jacob W. Mudde
Ann N. Nieuwkoop
Chad R. Nyenhuis
Andrew J. Oosterhouse

Mark S. Pettinga
Duan Qu
Matthew J. Scholten
David J. Schroeder
Timothy B. Schrottenboer
Freeland V. Shaw
Jared M. Smith
Ryan C. Smith
Zachary J. Snyder
Kirk L. Starnes
Nathan C. Studer
Joyce S. Vanderweide
Danielle L. Van Hal
Daniel J. Venema
Catherine E. Vincent

**BACHELOR OF
FINE ARTS**

Kevin S. Buist
Craig A. Hoeksema

Zoe J. Perkins
Joseph J. Post

**BACHELOR OF
SCIENCE IN LETTERS
AND OCCUPATIONAL
THERAPY**

Angela D. Crawford
Karen C. Dilfer

Anne E. Hatcher
Jill R. Scholten

**THREE-YEAR CERTIFI-
CATE IN OCCUPATIONAL
THERAPY**

Luke A. DeVries

**BACHELOR OF SCIENCE
IN NURSING**

Ashley J. Adams
Maxine M. Asante
Janna M. Aukeman
Kimberly L. Avera
Skarlette M. Bender
Stephanie A. Berens-Ver Merris
Katherine A. Bierma
Emily J. Bonthuis
Grace E. Boomsma
Jenna Ann Brandsen
Bethany A. Broene
Hannah E. Brown
Brittany H. Conrad

Heather J. Cook
Elizabeth M. Derocha
Lisa N. Disselkoen
Laura L. Droge
Leah A. Droge
Lisa J. Dyk
Julie B. Erickson
Elizabeth A. Fessenden
Michelle A. Flietstra
Elizabeth A. Flikkema
Jackie L. Folkema
Allison K. Hackney
Brent R. Hartemink
Kari M. Hendricks
Anne M. Jansen

Paula M. Kett
JuShin Kim
Lindsey M. Kraay
Annie L. Liszewski
Carrie L. Mallett
Diane M. McClelland
Fokjelina M. Medeiros Ward
Stephanie R. Meindertsma
Tricia L. Mulder
Jessica L. Pearson
Caitlin M. Perkins
Emily M. Persenaire
Laura L. Peters
Melissa J. Poortenga
Jason A. Ramaker

Cindy K. Solomon
Audrey A. Stamm
Jennifer L. Start
Josh A. Strong
Saara E. Terry
Sheri E. VandenAkker
Jennifer K. VanDragt
Brittany J. Van Groningen
Kari S. VanRandwyk
Jessica L. Vriesman
Rachel L. Wassenaar
Rachel L. Weller
Victoria Wheeler
Christina M. Witte
Kristin J. Wybenga

**BACHELOR OF SCIENCE
IN RECREATION**

Anastasia M. Barnett
Krista L. Battenfield
Bethany A. Belcastro
Brandi M. Eisenga

Sara B. Holesinger
Kayla J. McClellan
Renae L. Mejeur
Jodie L. Offringa

Mark D. Tigchelaar
Anna R. Vryhof
Mylinda D. Wiechel
Eric D. Willett

**BACHELOR OF
SOCIAL WORK**

Heidi N. Biedermann
Rachael C. Boeve
Marique A. Branderhorst
Nicole E. DeVries
Molly G. Dixon
Ruella D. Dreise
Delmy C. Duran Urrutia
Alison M. Dykstra
Jennifer L. Dykstra
Shannon N. Fuller
Melissa J. Gerritsen

Jaylyn S. Gough
Sadie M. Healy
Kimberly J. Hekman
Andrea B. Helsel
Brenda C. Hoff
Sara J. Iwema
Emily R. Joseph
Kelli L. Kol
Linda J. Lee
Christina L. Leep
Ashley E. Loan
Claire A. Lohmann
Audrey E. Mahlie

Anne F. Mas
Niecia G. Meyer
Sarah C. Mitchell
Lindsey P. Nienhuis
Holly D. Padding
Rebecca A. Palmer
Sarah Y. Pegman
Amanda M. Raih
Krista J. Rensink
Teresa L. Ribbens
Rebekah A. Sage
Elizabeth C. Schaafsma
Katherine L. Slotsema

Laura J. Spoelma
Ashley E. Stam
Brittney E. Stelpstra
Jamie J. Stuitje
Shauna M. Sybesma
Allison S. Taylor
Emily A. Van Beek
Paul W. Vliem
Laurie A. Whistler
Deborah R. Winiarski
Sarah E. Yore Van Oosterhout
Alicia L. Zandstra
Timothy W. Zwiers

SENIOR HONORARY AWARDS

**American Alliance for
HPERD Major of the
Year Award**

Briana J. Cady

**Beverluis Award in
Christian Philosophy
of Education**

Sarah E. DeVries
Kimberly J. VanDerKolk
Megan E. Zwier
Josiah B. Keen

**Paul H. Boonstra Memo-
rial Award in Mathematics
Education**

Kevin J. Butler

**Classical Association of
the Middle West and South
(Classics)**

Daryl R. Holmlund

CCA Computing Award

Scott C. Admiraal
Andrew P. Meneely

**Elsa Cortina Outstanding
Senior Award (Spanish)**

Sarah E. DeVries
Linda J. Lee

**The History Department
John DeBie Prize**

David W. Bratt

**William B. Erdmans
Literary Award (English)**

Jennifer L. Langefeld

**Outstanding Senior Award
in Biochemistry**

Elisa J. Verde

**Outstanding Senior Award
in Chemistry**

Stephanie R. Hogendoorn
Alissa A. Hare

**French Department Out-
standing Senior Award**

Sarah E. DeVries
Matthew E. Sandefer

**Outstanding Senior Award
in Geography**

Margaret R. Tassarò

**Outstanding Senior Award
in Geology**

David P. Meyer

**Dr. Peter D. Hoekstra Me-
morial Award (History)**

Rebecca M. Jelsema

**Dr. Roger A. and Bradley J.
Hoekstra Toward Christian
Excellence in Medicine
Award**

Michael S. VanderMeulen

**Harmon D. Hook Memorial
Award (English)**

Laura C. Peterson

**Sigma Theta Tau Interna-
tional Honor Society of
Nursing, Kappa Epsilon
Chapter-at-Large Outstand-
ing Student**

Ashley J. Adams

**Kent Medical Foundation
Grant**

Rebecca M. Jelsema

**Bret and Marlene Kort
Award in Medicine**

Kimberly L. Vanderzee

**Latin Award for Outstand-
ing Achievement**

Amelia J. Hicks

**Michigan Alliance for
Health, Physical Education,
Recreation, and Dance**

Kara L. Kuipers
Greg J. Cady

**Outstanding Accounting
Student, Institute of Man-
agement Accountants**

Harrison J. Jorritsma

**William Rinck Memorial
Prize in Mathematics**

John A. Engbers

**The Bernard J. TenBroek
“Excellence in Biology in
Research” Award**

Sarah A. Bodbyl
Nathan Y. Tonlaar

**The Bernard J. TenBroek
“Excellence in Secondary
Education” Award**

Erin J. Holwerda

**VanderArk Distinguished
Student Teacher Education
Award**

Stephanie L. Clow
Julia E. Dekker
Lindsay J. Rooney
Michele L. DeJong
Erin M. Slenk
Kim J. VanDerKolk

Zondervan Greek Award

Sarah E. Steen

SCHOLARSHIPS, FELLOWSHIPS, AND ASSISTANTSHIPS FOR POST GRADUATE STUDIES

Joshua D. Armstrong	Fellowships (philosophy), Rutgers University, University of Michigan, Cornell University, University of Notre Dame
Sarah A. Bodbyl	Fellowship (ecology & evolutionary biology), University of Kansas
Nicholas P. Bolt	Assistantship (psychology), Fordham University
Steven T. Buter	Assistantship (public administration), University of North Carolina
Daniel E. Clark	Assistantships (engineering), University of Illinois, University of North Dakota, University of Colorado
Lanae A. DeRoo	Assistantship (speech-language pathology), Western Michigan University
John A. Engbers	Fellowship (mathematics), University of Tennessee
Amber Flora-Homquist	Scholarship (LLM Human Rights), University of East London
Justin J. Grasmeyer	Scholarship (chiropractic medicine), Southern California University of Health Sciences
Laura A. Guichelaar	Fellowship (biology), Northwestern University
Timothy J. Gustafson	Assistantship (biology), University of Wisconsin - Madison
Alissa A. Hare	Fellowship (organic chemistry), Yale University
Andrea B. Helsel	Scholarship (social work), University of Denver
Rebecca L. Kallemeyn	Assistantship (theatre arts), Ohio State University
Helen E. Karsten	Assistantship (trumpet performance), Western Michigan University
Ashley E. Loan	Scholarship (social work), University of Denver
Rachel E. Mathias	Assistantship (special education), Vanderbilt University
Nathan A. McCarron	Scholarship (theology), Calvin Theological Seminary
Andrew P. Meneely	Assistantship (computer science), North Carolina State University

Laura C. Peterson	Fulbright Scholarship
Paul B. Rietema	Scholarship (law), University of Pennsylvania
Brian A. Roelofs	Assistantship (biochemistry & molecular biology), John Hopkins University
David M. Rubush	Assistantship (chemistry), Colorado State University
Rebekah A. Sage	Scholarship (social work), University of Michigan
Timothy B. Schrottenboer	Fellowship (structural engineering), Stanford University
Michael G. Schweiger	Fellowships (philosophy), Princeton University, New York University, Massachusetts Institute of Technology
Melissa K. Smith	Scholarship (architecture), University of Michigan
Sarah E. Steen	Scholarship (theology), Calvin Theological Seminary
Nathan C. Studer	Assistantship (computer science & engineering), Michigan State University
Michael J. Sullivan	Scholarship (law), Duke University
Anthony D. Sytsma	Scholarship (theology), Calvin Theological Seminary
David O. Tannor	Assistantship (mathematics), Western Michigan University
James W. TenHaaf	Scholarship (law), Washington University
Kelly R. Urness	Assistantship (chemistry), North Carolina State University
Rachel L. Vannette	Fellowship (ecology & evolutionary biology), University of Michigan
Dirk M. vanEyck	Scholarship (theology), Calvin Theological Seminary
Eric S. VanderVeen	Scholarship (law), Michigan State University
David M. VanderZee	Fellowship (urban & regional planning), University of Michigan
Sarah A. Winkle	Assistantship (speech pathology), Bowling Green State University

DEPARTMENTAL BANNERS

Throughout history, colorful banners have been used to mark important religious and civic events and to celebrate the vision and spirit of the participants in such events. The departmental banners displayed at this occasion arise from an awareness of this tradition and are meant to continue it. Besides symbolically revealing the richness of the various disciplines at Calvin College, the banners graphically represent their distinctiveness. Although their colors are mostly in keeping with traditional associations—scarlet for religion and theology, blue for education, orange for engineering—their forms combine the traditional, the contemporary, and the abstract.



Art



Biology

Art Department

An abstract eye and hand symbolize artistic expression through the artist's sense of sight and touch. Bright colors against black suggest creative boldness.

Biology Department

Dominating the Biology banner is a symbol representing the structure of the DNA molecule, deoxyribonucleic acid. The structure of this fundamental material of life, the chemical basis of heredity, was revealed in 1953 and actually photographed in 1969.



Chemistry &
Biochemistry



Classical
Languages

Chemistry and Biochemistry Department

The main symbol used in this banner is the electron distribution for tetrahedral hybrid orbitals, which represents the chemical activity of the elements and their compounds. Two segments of a crystal structure are included in the design, which are also the floor-plan shape of the science building. The shaft of pale yellow symbolizes the light of investigation. Yellow is the traditional color associated with science.

Classical Languages Department

While the lyre and the wolf may be taken individually as symbols of Greece and Rome, together they portray the unity of the two civilizations and its cultural achievement, the union of art and nature, and of poetry and myth. Horace has given this continuity and fusion of the two traditions of Greece and Rome its classical literary expression in his odes, of which none better, perhaps, than the "Integer vitae" ode conveys the intention of this banner.



Communication
Arts & Sciences



Computer
Science

Communication Arts and Sciences Department

Sound waves emanating from a central core symbolize communication through speech and drama. The reversal of the outward movement suggests feedback in communication. Silver gray is the color traditionally assigned to speech and drama.

Computer Science Department

The banner of the Computer Science Department features a Turing machine, the foundational model of digital computation. The zeroes and ones on its tape reflect the binary logic by which digital computation is implemented. The changing colors and order of the numbers express the transition as data move from input through processing to output. The white shaft and its golden sheath symbolize the light and energy of education and the sciences. The flowing wind symbolizes the transforming work of the Holy Spirit as it infuses the discipline of computing.



*Economics
& Business*



Education



Engineering



English



French



*Geology,
Geography, &
Environmental
Studies*



*Germanic
& Asian
Languages
& Literatures*



*Health,
Physical
Education,
Recreation,
Dance,
& Sport*

Economics and Business Department

Shapes and lines express the charting and planning of economic budgets. Subtly appearing among other symbols is a cross expressing the Christ-centered teaching of economics at Calvin College. Copper is the color associated with economics.

Education Department

The relationship of teacher and student in the educational process is represented by the forceful interaction of shapes in this design. The white shaft symbolizes the light of learning in the Holy Spirit. Blue is traditionally linked with education.

Engineering Department

The Engineering banner illustrates the key activity of engineers, namely, their involvement with the design process, an iterative, decision-making sequence. Steps in the sequence, represented by circles and rectangles, are connected by arrows to indicate the movement from the initial problem statement to final solution. Two-way arrows suggest the possibility of sequence reversal. Orange traditionally designates engineering.

English Department

The two main symbols, the lion and the eagle, represent England and the United States of America. The lozenge pattern in the background expresses the pageantry of England during the development of the English language.

French Department

The banner of the Department of French features the Coq Gaulois, long a national emblem of France, and the Arch of Triumph, a symbol of French patriotism. The cock, traditionally the Christian symbol for watchfulness, has been adopted as its symbol by a nation which since its inception has been one of the important cradles of Christian thought and practice. The colors of the national flag are represented by the Coq Gaulois.

Geology, Geography, and Environmental Studies Department

Earthkeeping, the human community's care for God's earth, is symbolized in the banner for the Department of Geology, Geography, and Environmental Studies by representations of atmosphere, mountains, cities, water, and the various levels of the earth's interior. The white shaft symbolizes the light and energy of learning stimulated by the Holy Spirit.

Germanic and Asian Languages and Literatures Department

The study of the Dutch and German languages is represented by symbols taken from emblems of the countries associated with these languages. The traditional black eagle represents Germany, and the orange lion is from the seal of the Netherlands. The white shaft symbolizes the light of learning.

Health, Physical Education, Recreation, Dance, and Sport Department

Engaged in exercise, sports, and dance, a person in motion is suggested by the movement of rhythmical shapes and lines. Sage green is the color associated with physical fitness.



History



Library

History Department

Jagged horizontal bands, representing both the rise and fall of civilizations and the four kingdoms as described in the Book of Daniel, move across vertical time lines, which also symbolize the dramatic influence of Christ on history.

Library

The library as a gatherer, receptacle, and distributor of information, ideas, and learning is represented by the abstract book shape, while the white, flowing shaft itself symbolizes the light and energy of learning in the Holy Spirit of God. The flame is the traditional symbol of learning and discovery through research.



Mathematics
& Statistics



Music

Mathematics and Statistics Department

Mathematicians have always saved time and effort by substituting symbols for words. The basic arithmetical steps of adding, subtracting, multiplying, and dividing are depicted on this banner by some of the earliest ways of writing them down.

The Renaissance calculator Tartaglia used the first letter of the Italian word for *plus* to signify adding. Diophantus favored this minus sign in Greek times. Leibniz employed this multiplication symbol in seventeenth-century Germany. J. E. Gallimard used this reverse *D* for division in eighteenth-century France.

Music Department

The design of the Music banner emphasizes the rhythms of musical sounds. Shapes and lines suggest strings, valves, keys, horn bell, drum, and other musical forms. Radiating circles suggest sound waves. The colors express the various moods of music.



Nursing



Philosophy

Nursing Department

The traditional emblem of nursing, Florence Nightingale's lamp, is featured in the banner for the Department of Nursing. The flame of the lamp symbolizes the light of Christian compassion and education. The gold of the lamp is the traditional color for science. The background apricot color is the academic regalia color for nursing, while the white shaft represents peace through the Holy Spirit.

Philosophy Department

Light refracted through a transparent prism symbolizes the many-faceted investigations of fact and of principles of reality and of human nature and conduct.

Physics and Astronomy Department

The construction of elements is symbolized in the Physics banner by the simplest atom, hydrogen, with its single proton and electron. Also included in the design are a tracing of the paths of particles from an atom and a segment of a crystal structure, which is also the floor-plan shape of the science building. The yellow shaft symbolizes the light of investigation.



Physics &
Astronomy



Political
Science



Psychology



Religion



Sociology &
Social Work



Spanish

Political Science Department

The banner of the Department of Political Science features a representation of the fasces, a symbol of the authority of the state, and arrows that express the direction and flow of the analytical and holistic nature of the process of law. The fasces, a bundle of rods bound about by an ax with projecting blade, was carried before ancient Roman magistrates as a symbol of authority. The white shaft of seven rods also symbolizes peace and enlightenment through the Holy Spirit.

Psychology Department

The Greek letter *psi*, the first letter of the Greek word *psyche* (the mind), traditionally signifies the discipline of psychology. The color red symbolizes emotion; blue, rationality; and white, peace through the Holy Spirit.

Religion Department

Three symbols of the Trinity—circle, cross, and dove—express the fullness of God as He reveals Himself as Creator, Savior, and Counselor. These symbols are interlocked to depict the oneness of God. The shaft of white is the light of learning in Christian education guided by the Holy Spirit. Scarlet is traditionally associated with theology.

Sociology and Social Work Department

The central concept of sociology, represented by the inner circle, is a person interacting with other people to form groups. Total human society, represented by the broken circle, is composed of many small units forming a larger interrelated structure. All groups, from the family to society itself, exist within a framework of social norms. This normative or cultural framework, represented by the unbroken outer circle, promotes conformity, as suggested by the arrows directed from it toward the inner circles of society and the smaller group.

Spanish Department

The banner of the Spanish Department features the traditional symbols of the historical kingdoms of Castilla (castle), León (lion), and Aragón (red and yellow bars). These Christian kingdoms emerged during the eight-hundred-year-long reconquest of the Iberian Peninsula from domination by Muslim rulers. The separate kingdoms were joined through the marriage of Ferdinand and Isabella, and eventually coalesced into the modern nation of Spain.

Banners:	Robin A. Jensen
Building arrangements:	Richard Field, Sandy Palmatter
Commencement Reception:	Creative Dining Services
Commencement Committee:	Peter Tichelaar and Darlene Meyering, co-chairs, Donna Anema, Ada Castle, Sharolyn Christians, Robert Crow, Rick Balfour, Mary Horning, Jeff Stob, Mary Jeanne Quist, Diane Vander Pol, James Van Wingerden
Commencement Participants:	Ruth Groenhout, Clarence Joldersma, Larry Louters, Karen Saupe, James VandenBosch, Christina Van Dyke, Dean Ward, Uko Zylstra
FAC Hosts:	Shirley Hoogstra, Vice President for Student Affairs
Chapel Hosts:	Randy Brouwer, James Jadrich
Greeters:	Henk Aay, Curt Blankespoor, Martin Bolt, Joy Bonnema, Dale Cooper, David DeHeer, Earl Fife, Tom Hoeksema, Wayne Joose, Michelle Loyd-Paige, Arden Post, Raymond Slager, Frank Speyers, Thomas Steenwyk, Leroy Stegink, Peter Tigchelaar, Glen VanAndel, Judy VanderWoude, Yvonne VanEe
Liturgy:	Nathan Bierma '02 and Kent Hendricks '05
Faculty Marshals:	George Monsma, Ph.D., Ronald Wells, Ph.D.
Student Marshals:	Gloria F. Jea, Kingsley Cijioke Kanu Jr., Nathan A McCarron, Sarah Elizabeth Steen
Design:	Calvin College Publishing Services
Flowers:	Eastern Floral
Publicity:	Phil de Haan, Director of Media Relations; Michael J. Van Denend, Executive Director, Calvin Alumni Association
Signer:	Bert Schwartz
Technical Assistance:	Audio Visual Department, Conferences and Campus Events Technical Services, and Calvin Information Technology
Receptions:	
Spoelhof Center:	Art, Education, Political Science, Sociology and Social Work
Fine Arts Center:	Communication Arts and Sciences, English, Music
Hiemenga Hall:	Classical Languages, Dutch, French, German, History, Japanese, Philosophy, Religion, Spanish
North Hall:	Economics and Business, Computer Science, Mathematics and Statistics
Science Building:	Geology, Geography and Environmental Studies, Nursing, Psychology
DeVries Hall:	Biology, Chemistry, Physics and Astronomy, Administration
Prince Building:	Engineering; Health, Physical Education, Recreation, Dance and Sport

