# CALVIN

College

## 2013 COMMENCEMENT

Saturday The Eighteenth of May Two O'Clock

### IN CHRIST ALONE

Text: Stuart Townend; Music: Keith Getty. © 2001 Kingsway's Thankyou Music. Used by Permission, CCLI license # 400063.

- In Christ alone my hope is found, He is my light, my strength, my song; this Cornerstone, this solid Ground, firm through the fiercest drought and storm. What heights of love, what depths of peace, when fears are stilled, when strivings cease! My Comforter, my All in All, here in the love of Christ I stand.
- 2. In Christ alone! who took on flesh Fullness of God in helpless babe! This gift of love and righteousness Scorned by the ones he came to save: Till on that cross as Jesus died, The wrath of God was satisfied— For every sin on Him was laid; Here in the death of Christ I live.
- There in the ground His body lay Light of the world by darkness slain: Then bursting forth in glorious Day Up from the grave he rose again! And as He stands in victory Sin's curse has lost its grip on me, For I am His and He is mine— Bought with the precious blood of Christ.
- 4. No guilt in life, no fear in death, This is the power of Christ in me; From life's first cry to final breath. Jesus commands my destiny. No power of hell, no human plan, Can ever pluck me from His hand; Till He returns or calls me home, Here in the power of Christ I'll stand.

## CALVIN COLLEGE ALMA MATER

Text: Celia Bruinooge; Music: Dale Grotenhuis

- 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

The Earle of Oxford's March from William Byrd Suite Gordon Jacob

#### Processional

Pomp and Circumstance March No. 1 Edward Elgar, arr. Clare Grundman

\* Welcome and Invocation Michael K. Le Roy, PhD, president

\* Opening Hymn In Christ Alone

Introduction of Commencement Speaker Claudia DeVries Beversluis, PhD, provost

#### **Commencement Address**

"Investing in the Future" Kumar Sinniah, PhD, professor of chemistry

### Distinguished Alumni Awards

Perrin Rynders, JD, *president, Calvin Alumni Association* to Kathleen S. Bosscher, MA, '68, Ardith J. Meekhof, BA, '76, and Michael J. Meekhof, MDiv, '76; and to James C. VanderKam, PhD, '68

#### Responses

**Student Body President Remarks** "Views from the Summit" Yeaji Choi, *student body president* 

## **Recognition of the Class of 1963** Scott A. Spoelhof, MBA, *chair*,

Calvin College Board of Trustees

## \* Litany for Commencement led by Michelle R. Loyd-Paige, PhD, *dean for multicultural affairs*

**Conferring of Degrees** Claudia DeVries Beversluis, PhD, *provost*; Michael K. Le Roy, PhD, *president* 

#### **Presentation of Diplomas**

**Commissioning Prayer** Mary S. Hulst, PhD, college chaplain

## \* Calvin College Alma Mater

Benediction Michael K. Le Roy, PhD, president

#### **†Recessional**

Sine Nomine Ralph Vaughan Williams, arr. by Alfred Reed

\* All who are able, please stand.

† Audience is requested to remain seated during the recessional until faculty and graduates have exited.

## LITANY FOR COMMENCEMENT

#### Leader:

Praise the Lord in the heavens. Praise the Lord on the earth. Praise the Lord under the earth.

#### People:

## Thanks be to God for the marvels of creation.

#### Leader:

Praise the Lord for the words that speak re-creation.

Praise the Lord for the lessons of history. Praise the Lord for the stories of culture.

#### People:

## Thanks be to God for the Word made flesh.

#### Leader:

Praise the Lord for inspiring poetic imagination.Praise the Lord for the mysteries of scientific analysis.Praise the Lord for bodies and minds made holy.

## People:

## Thanks be to God for the breath of the Spirit.

#### Leader:

Exalt the Triune God who encourages us to mix reading with repentance, fuse knowledge with devotion, stir learning with charity, challenge intelligence with humility, and enliven research with wonder.

### People:

## Thanks be to God for academic pursuits that lead to wisdom.

#### Leader:

Exalt the Triune God who requires of us to feed the hungry and offer drink to the thirsty,

build shelter for the homeless and clothe the naked,

comfort the weary and calm those who are anxious,

and be peace-makers throughout the world.

### People:

## Thanks be to God for daily lives that testify to grace.

### Leader:

Exalt the Triune God who calls us to be diligent stewards of the creation, zealous explorers of the cosmos, fervent messengers of eternal hope, faithful in marriage, family, and friendship and humble servants in public life.

## People:

# Thanks be to God for the power of the Gospel.

Leader:

Labour for the Lord in the market place. Labour for the Lord in the media.

Labour for the Lord in chambers of government.

Let *all* our agencies and institutions praise the Lord!

## People:

## Thanks be to God for the blessing of righteousness.

## Leader:

Serve the Lord in and beyond the classroom. Serve the Lord in and outside the church. Serve the Lord in bedroom and soup kitchen. Let *all* of our living praise the Lord!

## People:

## Thanks be to God for the joy of faithfulness.

## Leader:

Worship the Lord as members of the Calvin community.

Worship the Lord in private and public spaces.

Worship the Lord in ethics of work and play. Let *all* who breathe honour the living Lord!

## People:

## Thanks be to God for ever and ever. Amen!

### COMMENCEMENT SPEAKER

#### Kumar Sinniah, PhD



Kumar Sinniah was raised with five sisters on the island of Sri Lanka by parents who were highschool science and English teachers. Although he was a good student, Kumar failed his senioryear chemistry class, which obligated him to stay an additional year in high school. Even so, as

Kumar says, "I barely managed to pass chemistry."

After high school, Kumar worked for an accounting firm in Sri Lanka. With only one exam remaining in his accountancy program, Kumar received an opportunity to enter the highly selective University of Colombo in Sri Lanka. Hoping to major in mathematics, Sinniah took mostly math courses and a few basic science courses during the first two years. When the time came to apply for a major, Kumar was on holiday at the beach, so he asked a friend to submit the application. His friend submitted Kumar's name as a candidate for the university's prestigious chemistry major-a program that would accept only fourteen students. Upon returning from holiday, Kumar was both honored and horrified to find he had been selected for the chemistry program. He credits his strong math background and God's intervention in redirecting his life with getting him through college to graduation in 1984 with first-class honors in chemistry.

Although raised in a predominantly Buddhist country, Kumar was nurtured in his Christian development by a small group of Christian students and by the college chaplain; from them Kumar first learned about the importance of integrating faith and vocation. This same group of fellow Christians was instrumental in keeping Kumar's faith strong through the civil riots in Sri Lanka in 1983, during which time Kumar and his family—who were minorities in Sri Lanka—had to go into hiding, protected by friends from attacks by violent mobs in the majority community. Kumar testifies that it was a time during which his faith was tested, and God's love, mercy, and grace were most evident.

Following graduation, Kumar spent a gap year as an assistant lecturer at the university, teaching classes in thermodynamics and laboratory instruction in physical chemistry. His fondness for teaching was cultivated at the University of Colombo by some of the best teachers he has encountered anywhere in the world.

Kumar received his PhD in physical chemistry in 1991 from the University of Pittsburgh for the study of laser-induced desorption of molecules from single-crystal surfaces. In 1992, he worked as a post-doctoral fellow at the University of Maryland at College Park, combining techniques in molecular beam and ultra-high vacuum surface methods to study single-crystal surfaces. It was during his postdoctoral years that Kumar was exposed to the early atomic force microscopy instruments that enabled him to visualize atoms and molecules and to probe molecular interactions, a technique which he continues to develop with his undergraduate research students at Calvin.

Kumar began teaching at Calvin College in September 1995, thinking it would be only a one-year position. Eighteen years later, he continues to teach and conduct research in the Chemistry and Biochemistry Department. Kumar teaches freshman chemistry courses as well as analytical chemistry and advanced instrumentation for junior and senior chemistry and biochemistry majors. During interim he has taught such diverse courses as Water Chemistry in West Michigan Lakes and Rivers; Cinema and Censorship; and Sight, Sound, Flavors, and Fragrances.

Kumar has a passion for training undergraduate students to do research in the sciences. Over the past fifteen years he has trained more than forty undergraduate students in a wide range of research topics, including indoor and outdoor air quality, mercury in skin-lightening products, drug-DNA interactions, and targeted drug delivery methods for chemotherapeutic applications. Kumar's research work with undergraduate students was recognized in 2005 by Indiana University with an award for excellence in undergraduate chemical research and in 2012 by Calvin College when he received a teaching award for student-faculty research.

Kumar's research work at Calvin College has been supported by numerous entities, including the National Institutes of Health and the National Science Foundation. He has held visiting scientist positions at several universities, including Cambridge (UK), Maryland, and Michigan. In 2010 he received a Ruth Kirschstein Senior Research Fellowship from the NIH.

Kumar and his wife, Chrysanthi, and their two children, Ranuka (currently a sophomore at Calvin) and Johan (a sophomore at Grand Rapids Christian High School), have made their home in Grand Rapids for the past eighteen years. They are members of their neighborhood church, Plymouth Heights CRC.

### MESSAGE FROM THE FIFTY-YEAR REUNION CLASS

#### Dear Calvin College Class of 2013:

Greetings from the Class of 1963 and congratulations on your graduation.

Times have changed. Fifty years ago our commencement ceremony was in the Civic Auditorium downtown. In our senior year, Knollcrest was still mainly a farm, but the first-year students were taking their classes on this campus for the first time in one classroom building, and living in two dorm complexes with the dining hall in between. The place was mainly mud from construction; now it is an arbor.

For us as we graduated, our world was nearly as serene as Calvin's landscape is now: blooming bushes, green grass for sunning, and winter gone. Most of us found jobs or went to graduate school. There were, though, omens of change: a Cuban missile crisis, President Kennedy's assassination in 1963, social protest songs, and racial divisions. Within a decade, what we thought was a land of dreams became a land of racial riots, Vietnam protests, and "Don't trust anyone over 30," which we now were.

What you will face as the Class of 2013 is daunting. Christopher Smith's *Souls in Transition* describes a social landscape for those in their 20s or 30s that is foreboding: experimenting, hooking up, living at home or out there and back again, working a little in a variety of jobs, wandering from faith, and the like. That's why our Class of 1963 prays that you will stand on Christ the Rock as the hope for all of life and the anchor of your soul while social sands swirl. The world will grab at your shirt; the Word will keep you tethered to the Truth.

God has given you roots at Calvin: a really strong biblical worldview; internships in connecting this faith to life, as far away as China and as close as campus chapel; and developed answers to questions such as "What in the world am I doing here?" It's a good time to be grateful to God for this. But it's also a time to look forward, to be strong—to be daring and willing to suffer, even—and to bring Christ's love to a whole world. This commitment starts with "I give my heart to you, O Lord, promptly and sincerely."

The Class of 1963 believes you are well prepared, well rooted, to bear fruit in Christ's kingdom, serving him and others. Take this promise with you: "God will hold him/her in perfect peace whose mind is stayed on him" (Isaiah 26:3). Take this humble prayer too: "Lord, help me till gratefully / The plot of ground you gave to me."

Sincerely,

Dan Vander Ark for the Class of 1963

#### 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.



Michael J. Meekhof '76, MDiv '84 Ardith J. Meekhof '76 Kathleen S. Bosscher '68

A trio of Calvin alumni has made the small community of Zuni Pueblo, New Mexico, their home for decades, understanding that ministering to this tight-knit village of Native Americans does not come with a short-term option. "The Christian Reformed Church has been in Zuni since 1897, and we stand on the shoulders of people who came before us," said Mike Meekhof '76, MDiv '84. "We see the results of work done long before we came. We're continuing that work across generations."

Meekhof, the pastor of Zuni Christian Reformed Church, along with wife Ardy Engbers Meekhof '76, a kindergarten teacher at the Zuni Christian Mission School, and Kathy Bosscher '68, a teacher and the principal of the school, are sharing one of Calvin's Distinguished Alumni Awards this year.

Just 40 miles south of a well-known Navajo Christian Reformed community in Rehoboth, Zunis have maintained a cautious, protective strategy to keep their culture and history alive, and with that comes deeply held animist spiritual practices. To become a Zuni Christian is to strain family relationships.

In addition, poverty and struggles with addiction have given the Zuni people—and those who care for them—difficult challenges to overcome.

Into that complicated history and daunting present enter three Calvin alumni—the Meekhofs in 1989 and Bosscher (for the first time) in 1990. Since then, this dedicated trio has been sharing God's Word and the love of Jesus with the community through the dual ministry of church and K–8 school.

Mike and Ardy were serving the Comstock Park Christian Reformed Church in Grand Rapids when Ardy's parents, Bernie and Niecia Engbers, served Zuni in retirement as volunteer school administrator and teacher, respectively. The Meekhofs visited and became known by the ministry leaders there.

"We were initially conflicted about the call and asked some friends to talk and pray with us separately," said Ardy. "At the end of the evening, Mike and I shared what had happened in our groups, and it was clear that the Lord was calling us to go."

They've never left. Their three children—Chad, Tara, and Gina—are all Calvin alumni, and all were raised in the Zuni community.

Kathy Bosscher grew up at Rehoboth, where her father was the campus maintenance supervisor. After a Calvin education degree and a University of Michigan master's in education, she enlisted in the Peace Corps and spent three years in the Philippines. While there she came into contact with the work of Wycliffe Bible Translators, which led to five more international assignments with that organization—to Asia and Africa. In between these assignments, she taught, first in the Navajo Reservations and then at Zuni.

"I think you can call me a reluctant missionary," she said. "But God used my reluctance and put me in the place I most needed to be."

In 1999, she became the Zuni Mission School's principal as well as a teacher there; she does administrative work in the morning and teaches first and second graders in the afternoon.

"The three Calvin grads are Zuni, today, really," wrote author James Schaap, a retired Dordt College English professor who has been writing stories about the Christian ministry in the Southwest. "They are—if there ever will be—perfect examples of selfless giving to the promotion and life of the Kingdom."

#### James VanderKam '68



It looks like a simple hole carved into a desolate piece of rock in the middle of a desert region. The outline of Cave 4 is stark and solitary. But out of that cave, and some ten others in Qumran, in the Judean Desert, came ancient scrolls that have changed the way all of us read the Bible.

James VanderKam '68 has spent a good share of his life and professional experience examining, translating and interpreting the meaning of the Dead Sea Scrolls.

James Snyder, the Ann and Jerome Fisher Director of the Israel Museum in Jerusalem, calls VanderKam "one of the great scholars of our time in the field of Second Temple Judaism and especially of the Dead Sea Scrolls."

Second Temple Judaism is what used to be called by Christian scholars the "Intertestamental Period," the era between the writing of the Old and New Testaments, roughly from 515 BC to AD 70. "Basically, this is from the time the returned exiles rebuilt the temple to the time it was destroyed again by the Romans," said VanderKam. "Although there were no books in our current Bibles written then, a lot was written and much happened—it was a valuable time for literature."

VanderKam is well-known for his work on the Book of the Jubilees and the Book of Enoch, two books from which fragments were found among the other Dead Sea Scrolls. He has completed a commentary on a major section of Enoch and is currently working on one for Jubilees for Fortress Press, which has expanded a series of biblical commentaries into noncanonical books.

"Jubilees is important because it covers Genesis up to the first half of Exodus, and the concern of the author was that people would understand Genesis correctly and not make wrong inferences," he said.

It was the work VanderKam was doing on Jubilees that caught the attention of Dead Sea Scroll scholars in the 1980s. There was growing pressure on the small group of older scholars assigned to work on publishing the scrolls. While the scrolls were originally found between 1947 and 1956, relatively few had been fully transcribed 30 years later. VanderKam was the second younger scholar invited into this special group of academicians and was assigned to work on Jubilees. That work grew into more editing assignments and now, of the 40 volumes in the official publication of the scrolls, VanderKam is the editor of 13 of them.

Currently, VanderKam continues his translation work, along with teaching undergraduate and graduate students, at the University of Notre Dame as the John A. O'Brien Professor of Hebrew Scriptures.

Legendary Calvin Theological Seminary professor Bas Van Elderen influenced VanderKam while he was student there; Van Elderen, too, was engaged in studying the scrolls and directed VanderKam to biblical scholarship opportunities at St. Andrews in Scotland (as a Fulbright recipient). Harvard University followed. After graduate school, VanderKam taught and conducted research at North Carolina State University for 15 years before the invitation from Notre Dame.

VanderKam's acclaim in his field also comes from extensive publications—his book *The Dead Sea Scrolls Today* is the most widely used introduction to these texts in colleges and universities—and leadership as editor-in-chief of the prestigious *Journal of Biblical Literature*.

### STUDENT BODY PRESIDENT

#### Yeaji Choi



Student body president Yeaji Choi, a junior studying business marketing and English writing, was born in Seoul, Korea, and grew up in Malang, Indonesia.

Choi came to Calvin in 2010 because she had heard that Calvin faculty cared deeply about their students. In her first year

at Calvin, she served as a leader of a Philippians Bible Study group.

She decided to run for student body president the day newly elected president Michael Le Roy made his first visit to the Calvin campus. "I have never doubted President Le Roy's passion for students," she said. "I've been inspired by the way that he puts an effort into meeting students where we are at instead of expecting students to meet him where he's at."

During her tenure as Calvin's top student administrator, Choi has served on the college's Planning and Priorities Committee. She and the senate have created several events to support Calvin's prioritization process—the streamlining of the college's programs and services.

In March, Choi and team launched #WeareCalvin, a social media campaign that allowed students to post photos about what they most valued about their Calvin experience and vote on the results. With President Michael Le Roy and executive associate for communication and planning Doug Koopman, Choi also led a Strengths, Weaknesses, Opportunities and Threats (SWOT) session for students—similar to the SWOTS held for faculty and staff on campus throughout the spring. Both events allowed students to have a voice in how Calvin is shaped in the years to come.

"The partnership of students and staff working together as community to better the future was powerfully beautiful," Choi said.

Choi will graduate Calvin in May 2014. She hopes to someday be a consultant, helping employees to discover their strengths and passions. In her time at Calvin, she's learned important lessons about leadership from President Le Roy: "Leaders must accept the people they're leading with full grace and challenge them to move forward with truth," Choi said. "Once we lose sight of people, leadership loses its meaning."

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Nursing Justin A. Vanden Ende, BA

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William B. VanDenHeuvel, BS Biology

**Danielle J. VanderArk, BA** Elementary Education, Early Childhood Education

Brett T. Vander Baan, BA Kinesiology

Mikaela L. Vander Baan, BSN Nursing with Honors Zachary D. Vander Goot, BA Geography

Brian T. Van Der Heide, BSA Accountancy

Mark B. VanderHeide, BA Sociology

Justin M. Vanderhooft, BA Information Systems

**Douglas R. Vander Hulst, BA** Geography

Phillip M. Vander Klay, BA Political Science

Philip D. Vanderkooy, BS Biochemistry

Katelyn H. Vanderlaan, BA Elementary Education, Early Childhood Education

Zachary R. Vanderlaan, BS Biochemistry

Hannah D. Vander Lugt, BA Psychology

Michael H. VanderMeer, BA Political Science, French with Honors

Julia C. VanderMolen, BA Mathematics, Classical Studies with Honors, Secondary Certification

Allison M. Vander Ploeg, BSW

Social Work, Psychology

John M. VanderPloeg, BA Psychology

Rachel L. Vander Ploeg, BSW Social Work

Matthew P. Vander Roest, BSE Engineering-Mechanical Concentration

**Grace C. Vander Sluis, BA** Elementary Education, Early Childhood Education Kendra K. Vander Sluis, BSW Social Work

Jessica A. Vanderveen, BA English, Secondary Certification

**Rebekah E. VanderVeen, BA** Business-Finance Concentration with Honors, Philosophy

**Taylor L. Vanderveen, BA** Writing, Interdisciplinary

Gregory A. Vander Wal, BA Information Systems

Tyler S. VanderWal, BA Psychology

Rebecca J. Vander Wall, BSN Nursing

**Jonathon E. Vandezande, BS** Chemistry with Honors, Mathematics

Adam G. Van Dyk, BA Business-Marketing Concentration

Corey J. Van Dyk, BSE Engineering-Civil & Environmental Concentration, International Concentration

Hannah G. Van Dyk, BA Elementary Education

Kristen L. Van Dyk, BA English, Secondary Certification

Nathaniel J. Van Eck, BA Business-Marketing Concentration

Daniel P. Vang, BA, BS Psychology, Biochemistry

Cyrus A. Van Haitsma, BS Environmental Science

**Emily K. Van Hal, BA** Elementary Education, Early Childhood Education Bethany J. Van Kooten, BA Geography

Shelby L. Van Kooten, BSW Social Work, Psychology

Robert C. Van Lonkhuyzen, BSE Engineering-Elec & Computer Concentration

Carol-Anna K. van Milligen, BFA

Art with Honors

Sydney J. Van Ravenswaay, BA Business-Marketing Concentration

Dane P. Van Reken, BA Business-Marketing Concentration

Keith A. VanRhee, BA Spanish

Emily K. Van Schouwen, BSW Social Work, Spanish

Chad M. Van Soelen, BSE Engineering-Civil & Environmental Concentration

Leah J. Van't Hof, BA Sociology

**Rebecca E. Van Til, BA** Elementary Education, French

Savannah R. VanWormer, BA Kinesiology

Kelli J. Van Wyk, BA Speech Pathology & Audiology

**Robert C. Van Zanen, BA** Social Studies, History, Secondary Certification

Joseph B. Veenstra, BA Psychology Rachelle J. Veenstra, BA Speech Pathology & Audiology

Simon B. Veldkamp, BA Mathematics, Secondary Certification

Kyle J. Venhousen, BA Business-Marketing Concentration, Psychology

**Danny D. Verbrugge, BA** International Development Studies

Carissa J. Verkaik, BA Elementary Education

Andrew K. Vermeer, BA Business-Marketing Concentration, Kinesiology

Mikerlande Vernet, BA Psychology

Katelyn A. Ver Woert, BA Special Ed-Cognitive Impairm't, Elementary Certification

Elizabeth F. Vincent, BS Chemistry, International Dev Studies

Andrew J. Vos, BA Business-Marketing Concentration

Olivia J. Voss, BA Business-Marketing Concentration

Sarah N. Vrenios, BA Speech Pathology & Audiology

Kari M. Vriesman, BA Speech Pathology & Audiology

Michael J. Vriesman, BA Psychology

Michael J. Vriezema, BSE Engineering-Mechanical Concentration Ashley F. Vroegindewey, BA Biology

Mitchel J. Vroegop, BS Biology

Nicholas W. Vryhof, BS Biochemistry with Honors, Biology

Zachary J. Waasdorp, BA Asian Studies

Emily G. Wahlgren, BSN Nursing

Bethany J. Walcott, BA Elementary Education

Lauren A. Walker, BA Psychology

Allison P. Walt, BA Psychology

Garrett C. Walvoort, BS Biology

**Tessa C. Walvort, BA** Speech Pathology & Audiology

Lauren A. Wamsley, BS Psychology

Leah M. Warners, BSN Nursing

Daniel W. Weeden, BA Psychology

Jolene Weesjes, BA Physical Education

Bethany J. Wehman, BA Media Production

**Christina M. Weller, BA** Organizational Communication

Emily C. Westmaas, BA Psychology

Rachel J. Westmaas, BA Political Science Matthew O. Wever, BSE Engineering-Mechanical Concentration, International Concentration

Rachel M. Whitaker, BA Business-Human Resources Concentration, Psychology

Kyle J. Whitehouse, BA Sociology, Chinese

**Gregory P. Whittle, BSE** Engineering-Civil & Environmental Concentration

Lea N. Wibisono, BSPA Accountancy

Adam M. Wiersma, BA International Development Studies

Calvin D. Wiersma, BA Business-Finance Concentration, Economics

Jonathan D. Wilgus, BSE Engineering-Mechanical Concentration, US Army ROTC, 2nd Lieutenant

Grace J. Willemstyn, BS Biology Annie R. Williams, BA English

Audrianna G. Williams, BA

Business-Marketing Concentration

Nathan D. Williams, BSE Engineering-Civil & Environmental Concentration

Beatrice A. Williamson, BSR Recreation Abigail W. Wills, BA

Psychology Kelsey L. Wilson, BA

Speech Pathology & Audiology

Whitney C. Wilson, BA Music

**Dean R. Witt, BA** International Development Studies

Melanie C. Witte, BSN Nursing with Honors, Spanish

**David B. Witwer, BA** Media Production, Philosophy with Honors

Scott R. Wolcott, BA Philosophy Cree R. Wolfe, BA Environmental Studies

- Allison M. Wolffis, BSN Nursing
- **Jonathan M. Wong, BS** Biochemistry with Honors, Spanish

Laura A. Woodbury, BA Environmental Studies

Christian A. Woolley, BS Physics

Nolan C. Worstell, BSE Engineering-Chemical Concentration, Chemistry, International Concentration

Mai Nou Yang, BA Writing

**Debbie K. Yeboah, BA** International Relations

Kyung Jin Yoo, BSE Engineering-Elec & Computer Concentration, International Concentration

Sungjin Yoo, BA Classical Studies, International Relations, German

Yeo Seb Yoon, BA Psychology Eric X. Yu, BS Chemistry

Jessie O. Yunus, BSN Nursing with Honors

Jay W. Zandstra, BA Business-Marketing Concentration, German

Sandra L. Zegarra Flores, BA Media Production

William R. Zeinstra, BA Business/CAS Group

**Lauren M. Ziemba, BS** Public Health, Mathematics

Brent D. Zinn, BA Psychology

Nicole R. Zook, BSR Recreation

Damon J. Zuidema, BME Instrumental Music, K-12 Certification

Abby J. Zwart, BA English, Secondary Certification

Ryan T. Zwart, BSR Recreation, Psychology

## COMPLETION OF CALVIN COLLEGE COMPONENT OF OCCUPATIONAL THERAPY PROGRAM

Blair L. Price

Gillian R. Vander Tuig

Mary C. Whiteside

Today we remember Brenna Hannan, who began her studies at Calvin in the fall of 2011. Due to a medical trauma she remains in a coma at Metro Hospital. Brenna was good friends with many who are graduating today and would rejoice with them for completing their degrees. We continue to pray for Brenna's recovery and well-being.





Business









Sciences



Art and Art History

Biology

Chemistry and Biochemistry

Classics

Communication Arts and

Computer Science

## DEPARTMENT 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. Besides symbolically revealing the richness of the various disciplines at Calvin College, the department banners graphically represent their distinctiveness. Although the colors are mostly in keeping with traditional associations-scarlet for religion and theology, blue for education, orange for engineering-the designs combine the traditional, the contemporary, and the abstract.

#### Art and Art History 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.

#### **Business Department**

The banner of the business department depicts a visual representation of business as a nexus of relationships between people. A Christ centered education is symbolized by the center vertical column and the horizontal shape of human figures forming a cross. The center, vertical, white column also symbolizes the light of learning and the presence of the Holy Spirit in education.

#### **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 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.

#### **Classics Department**

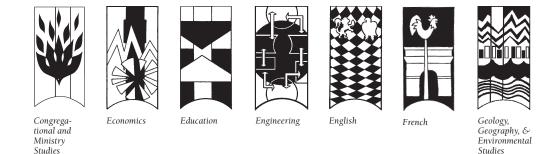
While the lyre and the wolf may be taken individually as symbols of Greece and Rome, together they portray the unity of the two civilizations and its cultural achievement, the union of art and nature, and of poetry and myth. Horace has given this continuity and fusion of the two traditions of Greece 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 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.

#### **Congregational and Ministry Studies**

The flame and the dove symbolize the Spirit's work within each of us to foster a vibrant Christian life and active participation in the ongoing renewal of church life. The Congregational and Ministry Studies Department emphasizes academic preparation for knowledgeable contributions to the church along with strategies for exercising the voice of faith in society more broadly. Concern for the academic study of ministry leadership, whether lay or ordained, is grounded in the Reformed tradition's emphasis on the responsibilities of every Christian for ministry and in the emerging vitality of congregational studies as a field of teaching and scholarship.

#### **Economics 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 & Asian Languages & Literatures

- - International Development Studies



Library







Mathematics & Statistics

Music

Nursing

#### 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.

#### **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.

#### **International Development Studies**

Human development is the transformation that occurs as we engage the redemptive task of reconciling all things to Christ and working toward a world that conforms ever more closely to the biblical vision of shalom. This transformation is symbolized by the "dancers," who radiate the joy of human flourishing in a diverse world embedded in God's creation. The dancers evoke the image of the cross and remind us that we are able to dance only because of our freedom in Christ. The Holy Spirit, symbolized by the white strand that comes from above and weaves its way through the dancers and all of creation, inspires the dance.

#### **Kinesiology 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.

#### 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 and Statistics Department**

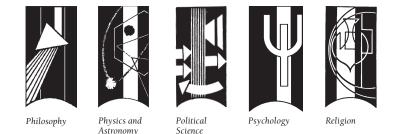
Mathematicians have always saved time and effort by substituting symbols for words. The basic arithmetical steps of adding, subtracting, multiplying, and dividing are depicted on this banner by some of the earliest ways of writing them down. The Renaissance calculator Tartaglia used the first letter of the Italian word for plus to signify adding. Diophantus favored this minus sign in Greek times. Leibniz employed this multiplication symbol in 17th-century Germany. J. E. Gallimard used this reverse D for division in 18th-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 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.

#### **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.

Sociology & Social Work Spanish

## APPRECIATION

Faculty Marshals	Kenneth D. Bratt, professor of classics; Bert de Vries, professor of history
Student Marshals	Anna Casto, Laura de Jong, Ryan Martinie, Joella Ranaivoson
Readers	Chad Engbers, associate professor of English; Laura Smit, associate professor of religion
Commencement Participants	Cheryl Brandsen, dean of social sciences and contextual disciplines; Stan Haan, dean of natural sciences and mathematics; professors Brian Bolt (kinesiology), Larry Louters (biochemistry), Karen Saupe (English), Julie Voskuil (business and accounting)
ASL Interpreter	Misti Ryefield
Covenant Fine Arts Center Host	Ken Erffmeyer, vice president for advancement
Chapel Host	Mark Williams, dean of arts, languages, and education
Commencement Litany	Text by Bert Polman, professor of music; illustration, Hands in Five Positions of Prayer, by Chrysanthi Sinniah
Music	Calvin College Wind Ensemble; Tiffany Engle, conductor
Banners	Robin Jensen, professor of art, emeritus
Flowers	Eastern Floral
Building Arrangements	Nathan Britcher, Richard Field, Katrina Hughes, Sandy Palmatter, Jim Phillips, and Tim VerStrate (building services supervisors)
Program Design	Calvin College Communications and Marketing
Technical Assistance	Video Productions, Conferences and Campus Events Technical Services, Calvin Information Technology
Commencement Committee	Jeff Stob, director, conferences and campus events, and Dean Ward, professor of English (co-chairs); Rick Balfour, Susan Buist, Yeaji Choi, Sharolyn Christians, C. Robert Crow, June DeBoer, Rick Miles, Connie Porte, Mary Jeanne Quist, Heidi Rienstra

## **Reception on the Commons Green immediately following the ceremony** (rain location: Huizenga Tennis and Track Center)