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#### Cedarville Magazine, Spring 2022: Called to Excellence

Cedarville University

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# CEDARVILLE MAGAZINE



CREATING THE FUTURE



#### PRESIDENT'S PERSPECTIVE

Paul Dixon served as Cedarville University's president for 25 years and has now been our chancellor for almost 20 years. Along with the song *Christ Is All I Need* and his annual dandelion speech urging people to keep off the grass, he is best known for the statement, "Anything done in the name of Christ should have quality stamped all over it." This phrase is still repeated by faculty and staff today and has set an enduring standard for Cedarville to pursue quality and excellence in everything we do.

Some secular academics contend that you cannot have an excellent academic university simultaneously committed to biblical truth. We disagree!

At Cedarville, our biblical convictions provide a deeper and higher motivation to seek excellence in education — the nature and character of our Creator and the biblical standard that we hold dear. In this edition of *Cedarville Magazine*, I have written an article outlining why Christians should pursue excellence and, specifically, why Cedarville does.

You will also find articles about academic achievements, and you will learn more about a few members of our world-class faculty for whom we are truly grateful.

I continue to be amazed at the men and women whom God calls to serve King Jesus at Cedarville. We have the best students in the world. These students receive an education second to none. Content consistent with a biblical worldview is presented in every classroom. Our academic excellence is higher than it has ever been. You can rest assured that quality continues to be stamped all over everything we do. It must be. Reflecting the nature and character of God while standing for the Word of God and the Testimony of Jesus Christ demands the pursuit of excellence in all we do.

As alumni and friends of Cedarville University, please carefully read the pages of this magazine. We hope you will join us in praising the Lord for what He is doing in these cornfields that is spreading throughout the world.

In Christ,

Thomas White, President

mcedarville.edu/president

@DrThomasWhite

facebook.com/DrThomasWhite

instagram.com/drthomaswhite

in linkedin.com/in/ithomaswhite

#### On the Cover: Called to Excellence in the Nation's Capital

Mark Caleb Smith, Professor of Political Science and Director of the Center for Political Studies, initiated Cedarville's D.C. Semester program in 2008, which occurs every fall semester in Washington, D.C. The admissions process is competitive, with students submitting a written application and undergoing a formal interview. Accepted students attend classes twice a week in the evening and participate in field-related internships during the day. Participants have interned for the White House, the Department of Homeland Security, the Secret Service, the U.S. House of Representatives and the U.S. Senate, law offices, and think tanks. D.C. semester is one more example of how our students are called to excellence wherever God takes them.



#### **Editor**

Janice (Warren) Supplee '86

Managing Editor

Clem Boyd

**Creative Director** 

Chad Jackson '05

**Graphic Designer** 

Craia Salisbury

**Photographer** 

Scott Huck

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#### **Our Mission**

Cedarville University transforms lives through excellent education and intentional discipleship in submission to biblical authority.

#### **Our Vision**

For the Word of God and the Testimony of Jesus Christ

Cedarville Magazine is published spring, summer, and fall and mailed free of charge to alumni and supporters of Cedarville University.

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Direct inquiries and address changes to:

Cedarville Magazine Cedarville University 251 N. Main St., Cedarville, OH 45314 cedarville.edu/magazine

magazine@cedarville.edu 1-888-CFDARVILLE

#### **READ ONLINE!**

Visit cedarville.edu/magazineSP22 on your computer or mobile device.

#### Whatever you do, WORK HEARTILY, AS FOR THE LORD and not for men.

Colossians 3:23

#### **FEATURES**

#### 2 | THE PURSUIT OF EXCELLENCE

THOMAS WHITE Excellence reflects the nature and character of God, and as believers, we should desire to reflect His nature in all that we do. This pursuit of excellence is the hallmark of a Cedarville education and is clearly stated in our mission statement and core values. Cedarville presses on in pursuit of excellence while standing for the Word of God and the Testimony of Jesus Christ.



#### **6** MEASURING EXCELLENCE

Cedarville is blessed with many tangible evidences of excellence — stats and stories, insights and outcomes. But the greatest measure of excellence for Cedarville is an eternal one — lives transformed for the Word of God and the Testimony of Jesus Christ.



#### 10 REMARKABLE RESOURCES

BRYSON DURST '22 Achieving excellence requires the best tools. At Cedarville, our health sciences programs have invested in leading-edge resources to ensure students are equipped to succeed. This includes a cadaver lab, a digital anatomy table, and a recently upgraded, state-of-the-art Simulation Center.



#### 14 HIGH BAR

BRYANA FERN Students in the Cedarville School of Engineering and Computer Science are held to high standards in their knowledge of applied math and physics That high bar goes even higher when they participate in competition projects that test their engineering skill against top students across the country.



#### 18 | CREATING THE FUTURE

HEIDIE RAINE '23 The industrial and innovative design (IID) major began in 2010 to provide a professional development path for those possessing both creative and technical skill and interest. Academic excellence displayed through a collaborative workplace-type atmosphere and exacting attention to detail has positioned IID grads to land top jobs in the design field.



#### 22 CYBER STARS

JEFF GILBERT '87 Cedarville's cyber operations graduates are guardians of the cyber galaxy. They are gatekeepers of information in a digital age. And the excellence of their preparation has been noted by everyone from private industry to government agencies.



#### IN EVERY ISSUE

**26** CHAPEL NOTES

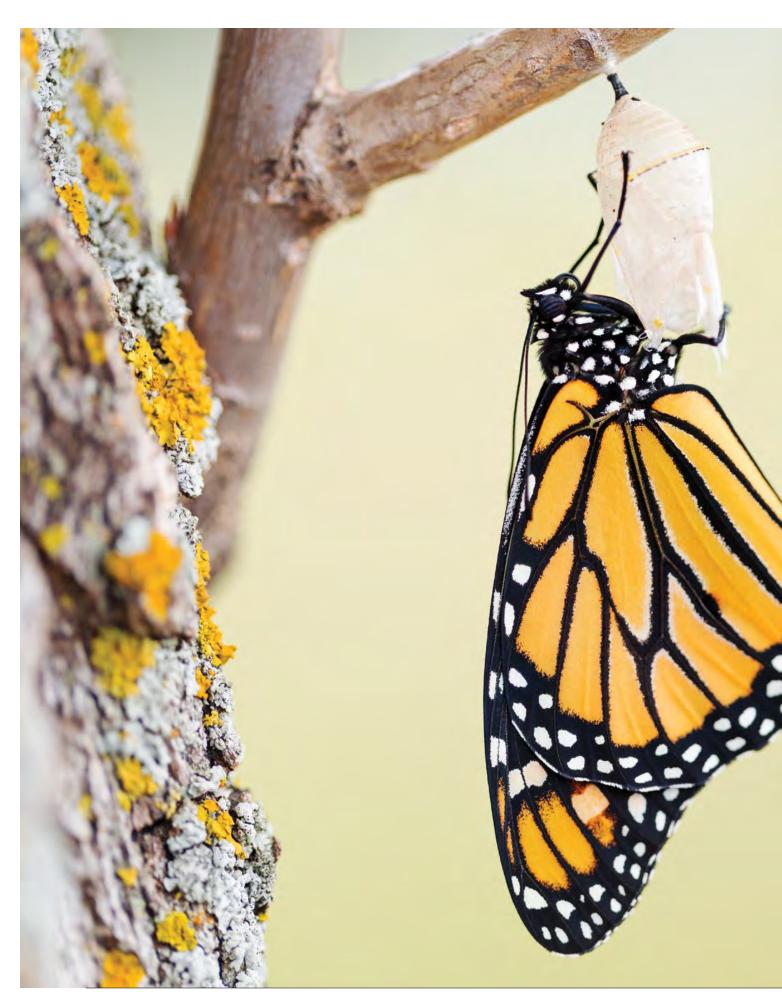
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# THE PURSUIT OF DIVIDING TO THE PURSUIT OF THE PURSU

BY THOMAS WHITE

# "ANYTHING DONE IN THE NAME OF CHRIST SHOULD HAVE QUALITY STAMPED ALL OVER IT."

PAUL DIXON

Since 1979, these words have set the standard for Cedarville University. But our motivation for pursuing quality and excellence in everything comes from a different source than other institutions of higher learning. Our motivation flows from our deep faith.

#### THE NATURE AND CHARACTER OF GOD

The nature and character of God define and display excellence. Quality and excellence describe something good — like a commendable virtue or a well-made product. Excellence describes the nature and character of something. The very nature and character of God shows us what is good, perfect, holy, and excellent. We see this both through God's creation and through God's revealed Word to us.

In creation, we see the imprint of a thoughtful design. We all know that excellence and quality don't happen by accident. As we admire creation, we see these qualities in a majestic sunset. We look up in the night sky to behold the countless

stars. We discover established natural laws set in place by the Creator, such as the orbit of the earth around the sun to create our seasons and the gravity that holds it all together. We study and admire the beauty of the monarch butterfly as it emerges transformed from its cocoon. We learn about the intricate details that allow a giraffe to drink water without passing out due to blood rushing to its brain, details that

allow a bombardier beetle to create an explosion as a defense mechanism without destroying itself, and details that allow a woodpecker to create incredible force with

The nature and character of God define and display excellence.

every blow yet survive. The more we examine the human body, the more we learn of its complex DNA and immune system. God's creation demonstrates excellence. By observing the quality of the creation, we learn something about the nature of the Creator.

God has revealed to us that while creation began good, mankind introduced sin to the world through the fall in Genesis 3. Ever since that time, God's Word tells us that all of creation groans for a renewal that is yet to come. The world we now observe contains the effects of sin through thorns, weeds, and mosquitoes. Despite the effects of the

fall, we clearly see that God's work displays elements of His character, including excellence. As followers of Christ who desire to reflect the nature and character of God in our own lives, we must pursue excellence in all we do.

Think back to the building of the temple. God gave detailed instructions on how to build the temple. Scripture records the names of people with the ability to

weave beautiful tapestries and sculpt precious metals. This construction created a visible shadow of the heavenly reality. God demanded that this place of worship demonstrate excellence in construction and in the rules of purification for worship. In doing so, God revealed to mankind something of

The Spirit working through the Word of God must transform our lives to reflect the character of God.

the heavens and of His own nature. God is excellence. Humanity is fallen, and we feel the temptation in our nature to cut corners, to cheat, to allow the

end to justify improper means, and to get away with whatever we can. This behavior reflects the nature of Satan, the father of lies who seeks to tear down and destroy. Yet, God Almighty stands alone as the good and excellent one.

For Christians desiring to become more like God, we cannot be satisfied with mediocracy. Good enough isn't good enough when living for Christ. We have a stewardship of the body, time, talents, and opportunities that God has given us. To reflect the character of our Creator, we must pursue excellence. Excellence and quality don't happen by accident. Excellence demands hard work, thorough thought, careful attention to detail, and relentless pursuit. Sometimes we don't achieve our goal, but through constant pursuit and through accepting nothing less than excellence in our effort, we demonstrate good stewardship pleasing to the One who

provided the opportunities. In doing the best we can in every situation, we serve God and our fellow man well.

The pursuit of reflecting God's character through excellence in everything can also create Gospel conversations.

> Others may look at our work and wonder why we work so hard, pay attention to every detail, or strive for such a high standard. The question allows us to point back to life as a stewardship and not an ownership. We must give account for what we do, and the God whom we will stand before is a God of excellence. Our only hope is grace alone, through faith alone, in Christ alone, but our reasonable

service to our God is excellence in all we do. Our God defines good. Our God personifies excellence. We seek excellence not for the applause of man but in service to our Savior.

#### THE ADMONITION OF SCRIPTURE

Scripture instructs followers of Christ to pursue excellence. Consider the following verses:

- Ecclesiastes 9:10: "Whatever your hand finds to do, do it with your might, for there is no work or thought or knowledge or wisdom in Sheol, to which you are going."
- 1 Corinthians 10:31: "So, whether you eat or drink, or whatever you do, do all to the glory of God."
- Colossians 3:23–24: "Whatever you do, work heartily, as for the Lord and not for men, knowing that from the Lord you will receive the inheritance as your reward. You are serving the Lord Christ."

Scripture encourages us to work with might and excellence because we serve a Savior who sees all and knows all. This demands our best. This demands that we don't skip our reading just because we can get away with it or cut corners on that project because no one will ever notice. God sees, and He notices.

We see other examples of excellence in Scripture, such as Daniel. In academic matters of studying, Daniel and his friends demonstrated excellence. Daniel 1:20 states, "And in every matter of wisdom and understanding about which the

king inquired of them, he found them ten times better than all the magicians and enchanters that were in all his kingdom." No doubt God gave them this ability, but these talents had to be accompanied by hard work to produce this level of excellence. This excellence served Daniel and his friends well as they served God in a foreign land. By similarly achieving a high academic level of understanding, a Christian university in the cornfields of Ohio can influence a nation that values intellectual ability. Daniel 6:3 continues, "Then this Daniel became distinguished above all the other high officials and satraps, because an excellent spirit was in him." By pursuing excellence, we glorify God and encourage human flourishing.

#### THROUGH THE EMPOWERING OF THE HOLY SPIRIT

At times, I find this demand overwhelming. Excellence in everything? That's a daunting task, but we know that our pursuit of excellence comes through the power of the Spirit living within us. As we commit to this pursuit and embrace the hard work required, we humbly acknowledge that we cannot do this in our own strength, and we don't do it for our own glory. The Spirit working through the Word of God must transform our lives to reflect the character of God. In doing so, we can learn to enjoy our work, to appreciate attention to detail, and to find happiness in serving others with excellence. Over time, the Spirit changes our nature from pursuing self to pursuing God, from loving self to loving others, from a prideful nature rebelling against our Creator to a humble servant seeking our Savior. Spiritual maturity replaces the crippling pressure with genuine joy as we pursue excellence in all things.

#### **CEDARVILLE'S COMMITMENT TO EXCELLENCE**

For Cedarville, we believe in excellence so strongly that we put it in our mission statement and include it in our core values. Yet, our motivation like everything else on our campus flows from a biblical worldview.

The pursuit of excellence has motivated us to be bold and innovative. From being one of the first Christian universities in the country to wire for internet access across campus to now being the only private Christian university certified by the National Security Agency as a National Center of Academic Excellence in Cyber Operations, Cedarville continues to be a technology leader.

We hire faculty members who will maintain this high standard. We foster an environment of discipleship in student services that cares about students as image-bearers of God

#### Through relentless effort, we seek to reflect the character and nature of the God we serve.

more than just numbers living in the residence halls. We have coaches who view athletes as brothers and sisters in Christ and not chess pieces to notch additional victories on a résumé.

#### PRESSING FORWARD

In all these things and so much more, we pursue excellence. We haven't achieved our goal yet, and we never will — not in everything. But through relentless effort, we seek to reflect the character and nature of the God we serve. Every time we make a mistake, we learn from it, pick ourselves back up, and keep stumbling forward. As Paul writes in Philippians 3:13-14, "Brothers, I do not consider that I have made it my own. But one thing I do: forgetting what lies behind and straining forward to what lies ahead, I press on toward the goal for the prize of the upward call of God in Christ Jesus."

Cedarville presses on in pursuit of excellence while standing for the Word of God and the Testimony of Jesus Christ.

**Thomas White** is President of Cedarville University. He earned his Ph.D. in systematic theology from Southeastern Baptist Theological Seminary.



# Measuring

A concept like "excellence" is difficult to measure. We talk much about it. Every university claims it. But how do you know when something as intangible as "education" is truly excellent?

The remainder of this magazine is dedicated to that quest — understanding and celebrating what makes Cedarville's academic experience demonstrably "excellent."

Beyond the stats and stories, insights and outcomes, we hope you'll see that the greatest measure of excellence for Cedarville is an eternal one — lives transformed for the Word of God and the Testimony of Jesus Christ.

#### **INTENTIONAL DESIGN**

#### **BUILDING BLOCKS OF A CEDARVILLE DEGREE**



#### THE END GOALS

In every program and every course, we set objectives that begin with the end in mind. What characteristics should define Cedarville graduates? These are our academic objectives:





#### A COMPREHENSIVE PROGRAM ARRAY

#### UNDERGRADUATE PROGRAMS

Accounting **Allied Health** 

**Athletic Training** (Sport Medicine + M.A.T.)

**Biblical Studies** 

- -Biblical Counseling
- -Biblical Languages
- -Biblical Literature
- -Historical Theology
- -Missions
- -Philosophy
- -Teaching Ministry
- -Theology
- -Women's Ministry
- -Worship
- -Youth and Family Ministry

#### **Biology**

Broadcasting, Digital Media, and Journalism

- -Digital Film and Video
- -Digital Radio and Audio
- -Integrated Digital Media
- -Journalism

Chemistry

**Civil Engineering** 

- -Environmental Engineering
- -General Civil Engineering
- -International Infrastructure Engineering
- -Structural Engineering
- -Water Resources Engineering

Communication

**Computer Engineering Computer Science** 

- -Cyber Operations
- -Graphic Design
- -Hardware
- -Video Game Engineering

**Criminal Justice** 

**Cyber Operations Economics** 

Education

- Chemistry
- Language Arts
- Life Science
- Mathematics
- Middle Childhood Music
- Physical Science
- Physics
- Primary (P–5)Science Comprehensive
- Social Studies
- Spanish
- Special Education -Intervention Specialist

**Electrical Engineering** 

English

**Environmental Science** 

**Exercise Science** 

**Finance** 

**Forensic Science** 

Geology

-Geosciences

-Physical Geology **Global Business** 

History

**Industrial and Innovative** 

Design

Information Technology Management

**International Studies** 

Keyboard Pedagogy

**Liberal Arts** Linguistics

Management

Marketing

Mathematics

**Mechanical Engineering** 

Molecular Biology

Music

**Music Composition** 

**Music Performance** 

Nursing **Pharmaceutical Sciences** 

**Physics** 

**Political Science** 

Preagriculture

**Predental** 

Premedical

Prephysician Assistant

Preoptometric Preveterinary

**Professional Writing and** Information Design

Psychology

- -Addictions and Chemical Dependency
- -Child and Family Studies
- -Comprehensive Counseling
- -Cross-Cultural Psychology
- -Health Psychology and Public Health
- -Interdisciplinary Studies
- -Neuropsychology
- -Occupational Therapy
- -Psychological Research

Social Work

Spanish

Sport Business Management

Sport Medicine

Studio Art

Theatre

-Design

-Performance

**Visual Communication Design** 

-Graphic Design

-Interactive Web Design

Worship

#### SPECIAL PROGRAMS

Bible, One-Year Certificate

**CPA Program** 

**Engineering Co-Op Program** 

**Engineering Honors Program** 

**Honors Program** 

**Medical Spanish Certificate** ROTC, Air Force

Languages)

ROTC, Army

Study Abroad Programs TESOL (Teaching English to Speakers of Other

#### **GRADUATE PROGRAMS**

Doctor of Pharmacy (Pharm.D.) (Pharm.D./M.B.A. Dual Degree also available)

Master of Arts in Biblical Leadership (M.A.B.L.)

Master of Arts in Worship and Theology (M.A.W.T.)

Master of Arts in Innovation (M.A.) Master of Athletic Training (M.A.T.)

Master of Business Administration (M.B.A.)

- -Business Analytics
- -Cybersecurity Management
- -Healthcare Administration
- -Innovation and Entrepreneurship

-Operations Management

Master of Divinity (M.Div.)

Master of Ministry (M.Min.) Master of Science in Nursing (M.S.N.)

(M.S.N./M.B.A. Dual Degree also available)

- -Family Nurse Practitioner
- -Global Public Health Nursing
- -Nurse Educator -Nursing Leadership in Healthcare Improvement
- -Pediatric Nurse Practitioner

cedarville.edu/academics

#### FACULTY COMMITTED TO SCHOLARSHIP AND DISCIPLESHIP

God continues to draw outstanding faculty members to Cedarville University. Their love for students, their discipline, and the Lord is truly distinct. These highly qualified, godly men and women excel in the classroom, mentoring and discipling students while also engaging in scholarly activities that advance their fields and strengthen the Cedarville experience.

in the nation for facultystudent engagement

(Wall Street Journal)

#### **FACULTY-STUDENT RESEARCH**

Our faculty work with students on groundbreaking research, which enhances students' educational experience and prepares them for graduate school and their careers. Below is just a sampling:

- Andrew Harris, Ph.D., Assistant Professor of Communication, coached student researchers who wanted to understand how universities communicate with and serve international student populations. Their research was presented to the National Communication Association and the Religious Communication Association.
- Heather Kuruvilla, Ph.D., Senior Professor of Biology, and a team of undergraduate students conducted research to discover if cancer cell reproduction could be inhibited in humans. Their findings may lead to treatments that impact cancer cell multiplication.
- Rocco Rotello, Ph.D., Associate Professor of Pharmaceutical Sciences; Mike Mendel, Ph.D., Professor of Zoology; and Robert Paris, Ph.D., Associate Professor of Biology, and their students studied freeze-tolerant frogs native to Ohio to see if they could discover a protein that might prevent or slow excessive cell death in people with Alzheimer's and other neurological diseases.
- Mohan Pereira, Ph.D., Assistant Professor of Physics, recently opened a biophysics lab where students will conduct nanomedicine research that may have application in fighting cancer.
- Michelle Wood, Ph.D., Professor of English, is coordinating the efforts of students in her American Women Writers classes as they transcribe 12,000 pages of journal entries from Martha McMillan, a 19th and 20th century Cedarville farmer's wife. The pages have been downloaded worldwide through the Digital Commons repository.

published chapters, journal articles, and other scholarly contributions from faculty since 1966

#### RECENT FACULTY PUBLICATIONS

Students benefit from studying under faculty who are contributing to scholarship in their disciplines, as demonstrated by an impressive and extensive array of published works. Here are just a few examples:

#### Computational Fluid Dynamics for Mechanical **Engineering**

George Qin. Associate Professor of Mechanical Engineering This textbook is intended to be used in a first undergraduate-level computational fluid dynamics course for the mechanical engineering major.



#### Ethics in Pharmacy Practice: A Field Guide

Dennis Sullivan, Professor Emeritus of Pharmacy Practice, Justin Cole, Associate Professor and Chair of Pharmacy Practice and Director of the Center for Pharmacy Innovation This co-authored book addresses the foundations

for pharmacy ethics, including human value and how a faith perspective influences ethical views.

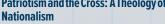


#### Jesse Owens: A Life in American History

Kevin Jones. Dean of the School of Education This co-authored biographical book focuses on the famous American track and field athlete Jesse



Owens. Patriotism and the Cross: A Theology of



Glen Duerr, Associate Professor of International Studies This book explores the intersection of faith and politics and a Christian's relationship with government.



#### **A Practical Guide to Personal Conditioning**

David Peterson, Assistant Professor of Kinesiology This guide offers readers practical information regarding body stewardship, nutrition, and exercise, all written from a Christian worldview.



#### **Reformation Commentary on Scripture**

Jason Lee, Professor of Theological Studies, Billy Marsh, Assistant Professor of Theology and Director of M. Div.

This commentary compiles the insights of reformation scholars from more than 500 years ago on the book of Matthew.



#### **OUTSTANDING OUTCOMES**

Every day, Cedarville students demonstrate excellence in effort to the glory of God. These outcomes are just a small sampling of the myriad ways that they excel at their studies, on professional exams, through their organizational involvement, and as they begin their careers.

98.4%

of 2021 Cedarville grads were employed or in grad school within 6 months of completing their degree percentile Field Test in Biology

**NCAA Division II Presidents' Award** for Academic Excellence

9-Time

#### **LOOK WHO'S HIRING CEDARVILLE GRADS**

- Amazon
- Microsoft
- Boeing
- NASA
- Ernst & Young
- Northrup Grumman
- The FBI
- Procter & Gamble
- Honda
- Rolls-Royce
- The Mayo Clinic
- Samaritan's Purse

employers recruit on

campus each year

Outstanding Delegation Model U.N., New York City

**Admittance to Law School** 

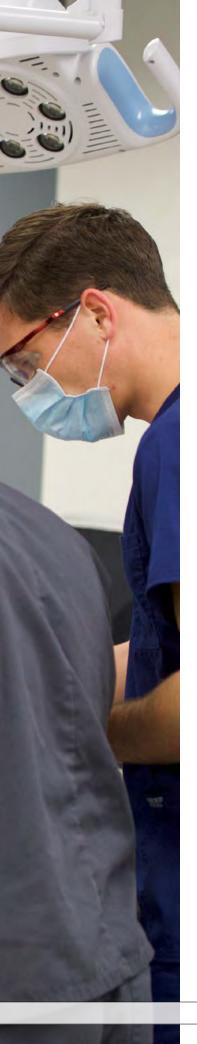
#### **GRAD SCHOOL DOORS ARE WIDE OPEN:**

- Case Western
- Cornell
- Georgetown
- Harvard
- Michigan
- Northwestern
- Ohio State
- Princeton
- Purdue
- University of Chicago
- University of Virginia
- Washington and Lee



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# REMARKABLE RESOURCES: **ACHIEVING EXCELLENCE** REQUIRES THE BEST TOOLS

BY BRYSON DURST '22

The tools available to our health sciences students are just one example of the way Cedarville invests in cutting-edge resources for all academic disciplines. From the cadaver lab in health sciences to the Torah scroll in biblical studies and the Trading Room in the School of Business, top-tier educational assets are equipping Cedarville students for career job placements and high-profile postgraduate opportunities.

At Cedarville, our health sciences programs are preparing the next generation of outstanding nurses and nurse practitioners, skilled athletic trainers, and pending final professional accreditation, insightful and caring PAs. Our leading-edge technology will help ensure they can make a life-changing difference in the U.S. and around the world. These remarkable resources include:

- A Gross Anatomy Lab that reinforces what undergraduate science and allied health majors learn in the classroom, helping them better understand relationships between body systems and giving them a head start for graduate school.
- A digital anatomy device called the Anatomage Table to help students in Cedarville's new Master of Athletic Training program interact with and learn about the structures of the human body in a virtual, interactive, and reversible manner.
- A recently upgraded, state-of-the-art Simulation Center to ensure nursing students continue to gain invaluable experience in a wide range of real-life patient care situations.

#### EXTRAORDINARY EXPERIENCE: THE GROSS ANATOMY LAB

There are some classroom concepts that textbooks cannot fully do justice, such as the human body. As part of Cedarville's commitment to excellence, the University's Gross Anatomy Lab gives undergraduate students hands-on experience as they learn about the human body.



The lab features four cadavers, with two new ones received every semester from the Wright State University Boonshoft School of Medicine Anatomical Gift Program (Fairborn, Ohio). Each semester, eight students who have earned high marks in an upper-level anatomy course can participate in the human dissection course (a biology elective).

During that semester, students work alongside the anatomy professor learning dissection technique and proper care of the cadaver. They gain more than 40 hours of hands-on dissection experience on a newly donated cadaver (4:1 student-to-cadaver ratio). This is a valuable experience, especially for students who will be entering medical, dental, or physician assistant (PA) school the following year. Additionally, the cadavers dissected the previous semester are used in each of the other undergraduate anatomy courses offered at the University.

"We've had a number of alumni say that they felt their

Medical School **Acceptance Rate** (Compared to 40.3% Nationally)

experience in the dissection lab gave them an advantage going into medical school, since Gross Anatomy is often the first course encountered in medical school," said Melissa (Hartman) Burns '96, Assistant Professor of Biology.

"Many of their grad school classmates have little or no exposure to human cadavers," she added. "I believe having a

Gross Anatomy Lab at the undergraduate level is a unique and valuable learning tool, especially for students pursuing careers in healthcare."

The dissection lab also reinforces the learning experience for students in the other anatomy classes.

"To see the actual organs and muscles, to be able to touch them, to pick them up and hold them, provides a hands-on interaction in a way that can't be replicated by reading a textbook," said Burns. "But once you've had that hands-on interaction, you can go to a textbook or an anatomy atlas, and it will make a lot more sense."

That experience has helped Cedarville premed alumni who are now in medical schools across the country. According to Burns, over the past five-year period (2017-2021), 82% of Cedarville premed students who applied to medical school were accepted (58 of 71), and over that same time, 63% (45 of 71) were accepted

as first-time applicants. Based on statistics from the American Association of Medical Colleges, 40.3 percent of applicants were accepted to medical nationwide during the same fiveyear period.

#### HIGH-TECH STUDY: THE ANATOMAGE TABLE

Complementing the cadaver lab, Cedarville's School of Allied Health recently invested in an interactive digital anatomy device called the Anatomage Table. Using two giant touch screens, students in the Master of Athletic Training program will analyze detailed scans of four people who gave permission for their bodies to be used before they passed.

#### Cedarville is one of only a few universities in Ohio with an Anatomage Table.

They will also be able to review case studies to determine the underlying disease processes of these patients.

The table will allow students to move and rotate bodies, adding and removing layers to see the skin, muscle, bones, blood vessels, and internal organs. Faculty members will be able to integrate the table into quizzes and lectures, asking students to identify various body structures.

The Master of Athletic Training program will also use traditional cadavers when it launches this summer, but unlike cadavers, students will be able to use the Anatomage Table outside of class on their own. The table will also allow students to instantly analyze structures that would be difficult to access in a traditional cadaver.

And while students cannot put cadavers back together when they have finished dissecting, they can add and remove layers of the human body on the Anatomage Table at will.

"The Anatomage Table will enhance what we will be using in cadaveric studies," said Mike Weller, Associate Professor of Athletic Training and the program's director. "It might better suit the learning style of someone who has grown up with this type of technology."

Cedarville is one of only a few universities in Ohio with an Anatomage Table. It will be exclusive to the Master of Athletic Training program for now, though Weller envisions opening it up to other programs in the School of Allied Health.

#### REALISTIC PRACTICE: NURSING SIMULATORS

Understanding course concepts is important, but practice is a crucial component of the learning experience. Cedarville provides students with opportunities to practice through a Simulation Center, which the Schools of Nursing, Allied Health, and Pharmacy recently updated to ensure a state-ofthe-art experience for years to come.

The latest update is the SimCapture Pro, a cloud-based simulation management platform with multi-angle video recording, simulator data capture, annotation, streaming, and debriefing capabilities, as well as self-reflection for simulation participants.

Junior and senior nursing students use lifelike mannequins in the center's three high-fidelity bays, two with Laerdal SimMen mannequins and one with a Laerdal SimMom, to practice their reasoning and judgment skills.

These simulators can sweat, bleed, and produce heart sounds, lung sounds, and vital signs such as heart rate and oxygen saturation. Students use the SimMen to assess these indicators and provide necessary medication and care. They use the SimMom to practice labor and delivery care, along with moderate-fidelity infant and child simulators for pediatric scenarios.

Upperclassmen nursing students spend two four-hour shifts with the high-fidelity simulators each semester. They use these simulators for medical-surgical, mental health, maternity, and pediatric clinical courses, as well as complex care and leadership courses specifically for seniors.

Nursing and pharmacy senior students also jointly participate in a weeklong Advanced Cardiac Life Support (ACLS) mock code certification opportunity at the start of the spring semester. Karen (Mathews) Callan '85, Coordinator of the Nursing Labs and Facilities, runs the high-fidelity simulators along with other faculty members who ensure a realistic simulation experience.

"In the Simulation Center, students apply their knowledge, skills, and, most importantly, their clinical judgment, clinical reasoning, and effective communication skills," said Callan.

In other skill labs within the School of Nursing, sophomore nursing students interact with moderate-fidelity simulators in guided simulations where they learn the basics of vital signs and what they indicate.

#### Students apply their knowledge, skills, and, most importantly, their clinical judgment.

Karen (Mathews) Callan '85

These simulations do not replace clinicals in a real hospital, but they add to the learning experience. By simulating a hospital environment without the possibility of real-world consequences, students can take the lead tackling complex medical issues. Debriefings allow students to analyze what they did right and wrong. Students who role-play loved ones also give nurses practice communicating with a patient's friends and family and dealing with end-of-life issues.

"It's very realistic, and it gives students the opportunity to actually feel like they are in a clinical setting," said Callan. "They get to be the nurse making real decisions based on their assessments. The practice of communicating to other professionals that are role-played by faculty during scenarios



has given our graduates excellent practice in organizing and articulating important information to other healthcare professionals."

With such a training environment, is it any wonder that Cedarville nursing students, and health science majors in general, are sought out by employers around the country. Excellent technology guided by excellent faculty leads to excellent results.

Bryson Durst '22 is a communication major at Cedarville University and a Public Relations student-writer.

#### BY BRYANA FERN

Excellence is the goal for Cedarville students in every academic discipline. Whether it's creative nonfiction writers publishing in professional journals to earn the highest class grade or the nationally recognized Integrated Business Core requiring students to establish a fully operational business and generate profits to benefit local charities, students are called to aim high. Our School of Engineering and Computer Science is one more example of those high expectations saturating every major, from class projects to labs, competition teams, and senior design. That high bar is clearly established and our students consistently meet and exceed the standard.





#### HANDS-ON EXPERIENCE

Cedarville engineering competition teams match up against the best and brightest from the U.S. and around the globe. Robert Chasnov, Senior Professor of Engineering and Dean of the School of Engineering and Computer Science, noted that the pattern of top winnings in international competitions against the best engineering programs in the world over the last 30 years "says much about who we are and how we provide an opportunity for our students to be at their best."

Cedarville engineering students are pushing the boundaries of traditional technology and leading research and exploring the possibilities of future technology.

#### **Traditional Technology**

- Supermileage Team with Larry Zavodney, Senior Professor of Mechanical Engineering, which was named 2020 and 2021 champions of the Society of Automotive Engineering Supermileage competition, and winner of the prototype vehicle design award for the 2020 Shell Eco-Marathon Americas and winner of the technical innovation award at the 2021 Shell Eco-Marathon Americas
- Solar Boat with Tim Dewhurst, Senior Professor of Mechanical Engineering, which is a

12-time champion of Solar Splash: The World Championship of Solar Boating

 Grassroots Motorsports Challenge Team with Jay Kinsinger, Associate Professor of Mechanical and Biomedical Engineering, which placed second in 2021 against teams that included Georgia Tech

• Society of Automotive Engineers (SAE) Aero Design, which in its 2021 international contest in the Advanced class competed against teams from Georgia Tech, the University of Puerto Rico, Alexandria University (Egypt),

Universidad Nacional Autonoma de Mexico, Campus Ciudad de Mexico, Oklahoma University, and Michigan **Tech University** 

#### **Future Technology**

- NASA Student Launch project with Tom Ward, Associate Professor of Mechanical Engineering, which will compete this April against rocket teams from Purdue, Notre Dame, The Ohio State University, the United States Naval Academy, and the United States Air Force Academy in the 2022 NASA Student Launch in Huntsville, Alabama. As part of their preparation they have held multiple subscale launches and will have filed around 750 pages of documentation to NASA
- Cyber Team with Seth Hamman, Associate Professor of Cyber Operations and Computer Science
- Automated Golf Cart with Danielle (Scarpone) Fredette '12, Assistant Professor of Electrical and Computer Engineering
- American Society for Engineering Education (ASEE) Robotics Team with Clint Kohl, Senior Professor of **Computer Engineering**

These projects prepare students with hands-on practice, demanding excellence, dedication, and plenty of sweat equity. Textbook explanations become real-world trial and error,

> where skill and expertise are developed and sharpened.

#### in Supermileage **Competition** (2020 and 2021)

#### **GOING THE EXTRA SUPERMILE**

Brianna Ice '22, team leader for the Supermileage team, said the chance to apply all the theory from class is the most rewarding aspect of the work. "Supermileage has helped

me to see how principles learned in the classroom apply to real life," she noted.

Like all the engineering teams and projects, Supermileage demands a high level of accuracy and commitment. Ice must balance these demands along with the added responsibility of being team leader. "I also have to make sure I am delegating work and using the skills of my team members,"

Students and faculty members must discover how their identity as Christ-followers impacts the pursuit of excellence in their fields and the rest of life.

she stressed. Indeed, the team contributions in these projects seems to be one of the most important factors of their excellence.

Part of what allows students to perform at this level is their coursework in fundamental theory itself — without proficiency in applied math and physics, students would be far less successful in hands-on work with teams and solo projects.

#### PREPARING FOR THE FUTURE

Cedarville students who pursue graduate degrees in engineering transition smoothly because of the depth and rigor of their undergraduate degree.

"I'm taking a course in graduate school that I thought would be an advanced version of the elective course I took at Cedarville," one former student shared with Chasnov. "But I came to find out that we are using the same text and have been asked to solve the same homework problems that my Cedarville course required." While this is only one of many alumni testimonies, it demonstrates the high level of excellence that faculty require of students.

#### CHRISTIAN MINDSET AND WORK ETHIC

Not only do Cedarville's high standards prepare students for careers and graduate school through excellent work ethic and experience, but they also train students to balance academic rigors and job demands with a biblical worldview and Christlike empathy toward others. Cedarville is blessed with diverse and qualified faculty members who actively engage in students' progress and professional ambitions, helping each of them visualize their career options.

"The consistent theme over these 30 years has been calling," Chasnov explained. "Our students quickly realize that getting a degree in engineering or computer science is not simply checking the boxes for a set of courses to complete. They must go above and beyond the requirements that would get them that exact same degree at the public university in their home state."

Like any other program within Christian higher education, engineering and computer science students and faculty members must discover how their identity as Christ-

followers impacts the pursuit of excellence in their fields and the rest of life.

Chasnov quoted Paul Dixon, former Cedarville President and current Chancellor, in saying that, as Christians, "Everything we do ought to have quality stamped all over it." Engineering tasks in creating and shaping and inventing echo God's own passion to make and create. And Cedarville engineering students, trained with academic excellence, are likewise challenged to live their personal, professional, and public lives with the same kind of excellence, to the glory of the original Creator.

Bryana Fern serves as Assistant Professor of English at Cedarville University. She earned her Ph.D. in English and creative writing from The University of Southern Mississippi.



Pictured L-R: Seniors Forrest Putnam, nose cone and simulations lead, and Chad Sanderson, NASA Launch Team leader, inspect the rocket prior to a practice launch in February.





BY HEIDIE RAINE '23

Cedarville leaders are always on the lookout to grow the University's academic footprint with the latest in-demand programs to train students to become cuttingedge leaders in emerging career fields. From industrial and innovative design to the developing PA program, cyber operations, information technology management, and interactive web design, and more, Cedarville develops programs to prepare today's students for roles of Gospel influence in tomorrow's rising industries.

Cedarville University's industrial and innovative design major is training its graduates to serve as industry leaders in the professional design field. The growing list of graduate success stories is sure to inspire the next generation of future innovators

The industrial and innovative design (IID) major came into being at Cedarville more than 12 years ago through a partnership with the Columbus, Ohio-based International Center for Creativity (ICC), but the discussions and customization of this program began almost 20 years ago.

#### **CREATIVE EDUCATION FOR CREATIVES**

After selling their marketing firm in 2001, ICC co-founders Tom Balliett and Jim Stevenson were searching for a new venture while each doing corporate consulting work in graphic design, industrial design, web design, and marketing.

"It all came back to education and how broken it was for creatives," Stevenson said. "Our thought was, if we can turn what we do - transforming brands and products — into a curriculum, we'll be filling the need that our clients keep expressing."

Shortly thereafter, Stevenson interacted with Daniel Estes, Distinguished Professor of Old Testament at Cedarville, at a church music rehearsal. Estes communicated Cedarville's desire to pursue more creative professional programs, and this conversation paved the way for Cedarville's partnership with the ICC.

Beginning in fall 2010, Cedarville welcomed its first class of IID students to the world's only evangelical Christian industrial design program, piloting a unique structure that continues to thrive today. Students complete their first two years of study on Cedarville's campus, and they transition to the ICC studios for the last two years of their program.

"Without the diligent work of so many, including Prof. Terry Chamberlain [Associate Professor Emeritus of Fine Art], Dr. Steve

Winteregg [former Associate Academic Vice President for the College of Arts and Sciences], and Dr. Duane Wood [former Academic Vice President], this program would have never seen the light of day."

Beginning in fall 2010, Cedarville welcomed its first class of IID students to the world's only evangelical **Christian industrial** design program.

The first IID class, three internal transfer juniors coming from business, engineering, and



studio art, met in the Jeremiah House on Cedarville's campus — the ICC's first headquarters and home of former Cedarville President James T. Jeremiah, a leader noted for innovative problem-solving.

"That first class was the perfect display of what industrial design is: the intersection of business, engineering, and art," Stevenson added.

"We often hear the phrase 'Jack of all trades," Joe Gerber '22, an IID major from Ellendale, Delaware, said. "Our instructors help us build our 'toolbelts,' as we call them, with skills like writing, presenting, designing and sketching, marketing, rendering, and many more."

#### **DEVELOPING INNOVATION LEADERS**

As the IID major has matured, it's provided students with further opportunities to exercise their innovation and design skills, which culminate in senior capstone projects.

Seth Killian '17 channeled his love for motorcycles into his senior capstone project by producing a custom set of tools to fit

It's an opportunity to demonstrate a reflection of God's creativity. This is an outlet for us to worship God.

Jay Kinsinger

the British-made Birmingham Small Arms (BSA) motorcycles, for which the market previously lacked a sufficient tool set. His company, Iron and Hide Customs, was born out of the semester-long project.

After graduation, IID students use their projects, skills, and focused expertise to launch into industry, landing some of the market's top competitive positions. Over 85% of ICC graduates are employed in design-related fields.

"We have graduates working at Wolverine Boots, Nike, Air Jordan, Reebok, Books Running, Crocs, Hunter Fans, Shark Ninja, Petco, Bose, Chick-Fil-A Corporate — the list goes on and on," Stevenson explained.

An easy-to-build tree fort for parents with few building skills became 2017 graduate Drew Brandt's capstone project. That design was the key to him landing his current post creating outdoor play equipment for KidKraft in Dallas, Texas.

Julia Shaffer '19 accepted a position as an associate industrial designer at Hunter Fans, one of the leading companies in the domestic lighting and fan industry, in January 2020. Her designs have routinely hit the market since.

TTI Electronics, a Fort Worth-based corporation that owns companies such as Dirt Devil Vacuums and RYOBI tools, also hires many of Cedarville's IID graduates. Major car manufacturers such as Honda and Ford have also hired Cedarville's IID alumni.

"My lifelong dream has been to build rollercoasters," Gerber shared. "I came into Cedarville as a mechanical engineering major, but realized I needed more creativity to explore my love for themed entertainment design."

Gerber's senior capstone project will propose a design for a Magic School Bus-themed thrill ride, which he hopes will highlight his skills for immersive and engaging attraction design.

#### REFLECTING THE CREATOR

In addition to design experience, Gerber has also developed more independence in his faith and deeper friendships because of the move to Columbus.

"It was very difficult to leave the main campus, but as seniors, we are so grateful for where we are," he explained. "My classmates are my family, and we learned to encourage each other in our spiritual walks and come alongside one another when school was demanding. This program prepares you for the real world in every aspect."

Jay Kinsinger, ICC instructor and Associate Professor of Mechanical and Biomedical Engineering at Cedarville, echoes the idea of spiritual growth and the IID major being uniquely tied.

"It's an opportunity to demonstrate a reflection of God's creativity," Kinsinger explained. "This is an outlet for us to worship God. I think of Exodus 31 where God fills these craftsmen with His spirit so they can make beautiful things

out of all these mediums."

As the IID major looks to what the future may bring, advanced professional education and technology advancements are at the top of the list.

"Our new Master of Arts in Innovation offers new opportunities for professionals in the field to develop and grow and become industry leaders," Stevenson explained. "We emphasize creative problemsolving, solution development, and entrepreneurship."

This program is ideally suited for professionals who want to solve problems using innovative and creative processes and methods.



The undergraduate major has also moved to incorporate more technology in its design process, ushering in 3D printing, digital rendering, iPad sketches, and other digital tools. The ICC is currently developing a virtual reality lab, which is set to launch this school year.

One of the biggest transformations occurred in 2020 when the ICC moved from its home in Powell, Ohio — just north of Columbus — to Lakehurst in Dublin, Ohio.

"The world continues to transform, and in the innovation business, we always want to be on the front end of adapting to the next new thing," Stevenson said.

The ICC is a Columbus, Ohio-based firm that delivers "creativity" consultation for companies, artists, and individuals, and partners with Cedarville University to deliver a cutting-edge, IID major.

Heidie Raine '23 is an English major at Cedarville University.

#### **MASTER OF ARTS** IN INNOVATION FOR CREATIVE LEADERS



With innovation/creativity as the No. 1 soft skill employers look for in today's future hires, thinking outside the box, over the hedge, and into the metaverse is no longer just the realm of artists and artisans. The business world is changing, and innovative minds are leading the way.

In view of this shifting landscape, Cedarville has launched its newest graduate program, the Master of Arts in innovation degree. This completely online program, offered as a partnership between the School of Business and the International Center for Creativity, will equip problem-solving professionals with the mindset to drive change and the knowledge to confidently guide change.

This 33–36 credit hour program includes core classes in managing and leading organizations, strategic marketing planning, design thinking principles, and business modeling and new venture creation.

For more information about the Master of Arts in innovation, visit cedarville.edu/MAinnovation or contact The Graduate School at Cedarville at 937-766-8000.

BY JEFF GILBERT '87

Cedarville's programs and students are regularly recognized for excellence. From the National Security Agency naming our cyber program a National Center of Academic Excellence in Cyber Operation to 100% of social work students passing their professional exam and 100% of our students sitting for the Law School Admissions Test being admitted to law school, to athletics receiving the NCAA Division II Presidents' Award for Academic Excellence nine times in a row, these external verifications offer proof of the excellence our students experience and exemplify every day.



Cedarville's rise in training students to work in cyber operations began with a conversation between faculty members. That conversation led to a strategically executed Ph.D. path for Seth Hamman, Associate Professor of Cyber Operations and Computer Science, which led to a specialization for computer science majors and, eventually, a new major with 33 students.

That first conversation between Hamman and David Gallagher, Senior Professor of Computer Science, one of the founders of Cedarville's computer science program, happened in 2012. Ten years later, Cedarville is a forerunner in cyber operations education and is the premier school in Christian higher education to offer such a major.



Pictured left to right: Patrick Dudenhofer '04, Assistant Professor of Computer Science and Cyber Operations; Seth Hamman, Associate Professor of Cyber Operations and Computer Science; and Keith Shomper, Professor of Computer Science and Cyber Operations

#### FAST-TRACK

Relatively speaking, Cedarville's program has grown as fast as a computer hacker pounds a keyboard and discovers crucial information on your favorite TV show.

That Cedarville's program is one of the most highly regarded in the nation is not a marketing slogan. The young program is

> one of 22 to receive the National Security Agency's (NSA) highest recognition as a National Center of

Academic Excellence in Cyber Operations.

"For Cedarville to be on that list to me is a marvel," Hamman said. "It's an elite type of distinction. And we geared up for it; we targeted it; we built around it. And then, by God's grace,

it happened."

ECURITY

The scholarship and career opportunities with defense contractors and the intelligence community are abundant. The Department of Defense (DOD) is funding seven

**Center for Academic Excellence designations from** the National Security Agency

Cedarville students (three seniors, four juniors) with full scholarships, \$25,000 a year in living expenses, and an internship. In return, the students are committed to work two years with the DOD after graduation.

"Our government is investing huge resources into cyber education because we have a pipeline problem," Hamman said. "We desperately need to produce more cyber talent."

After the Cedarville students complete their two-year DOD commitment, they can stay or move into the private sector likely to a defense contractor — and make a higher salary. The first out-of-college jobs are bordering on six figures because the demand is so high.

"It's a good time to be tech-oriented because there's a huge demand and short supply," Hamman said. "The job prospects are incredible."

#### **CYBER DEFENDERS**

Hamman says the demand exists because cyberattacks are the nation's foremost national security concern. For this reason, the University launched the Center for the Advancement of Cybersecurity in 2018. The center focuses on advancing cybersecurity in our nation by developing tomorrow's cyber leaders in the classroom, shaping cyber education in the academy, and promoting cyber awareness in society. The center will increase Cedarville's opportunity for influence as more issues develop with cyberattacks.

The center's move to the Scharnberg Business Center, which is slated to begin construction this fall, should only raise cyber's profile on campus and in the professional ranks.

"Cybersecurity underpins the entire intelligence and military apparatus," Hamman said.

"Nations are not going to war, but they're making strategic gains against one another in terms of espionage and other types of activities. When we read about China and Russia in the news it's usually because of some kind of cyber operation, some kind of hack."

Cedarville's cyber program is also one of 350 schools with the National Security Agency's designation as a National Center of Academic Excellence in Cyber Defense. Cedarville is one of just two schools that hold both NSA designations and the Accreditation Board for Engineering and Technology (ABET) Cybersecurity accreditation.

"It's an additional indicator that we're building our cyber program the right way," Hamman said. "We're teaching the right content. We are doing the right activities, such as cyber competitions and service to the community. We've been scrutinized and vetted by peers."

#### INDUSTRY RECOGNITION

This past fall, the program was named one of the top 16 cyber education programs in the U.S. by the Chief Information Officers Institute. It's getting hard to keep up with all the accolades.

So how did Cedarville become a leader so fast in this fledgling academic discipline?

The discussion began when Hamman arrived at Cedarville in 2012 to teach computer science. The topic of conversation was what kind of doctoral program should he pursue. That's when Gallagher floated the cyber idea.

Gallagher and Keith Shomper, Professor of Computer Science and Cyber Operations, and Bob Schumacher, Associate Professor Emeritus of Mathematics, were the founding members of the computer science program. They are Air Force veterans and had ties to the Air Force Institute of Technology (AFIT) graduate school at nearby Wright-Patterson Air Force Base.

Hamman said Gallagher noticed the growth of cyber and that computer science majors were getting jobs in cybersecurity. Why not start a program?

Hamman began his doctoral work in computer science at AFIT with an eye toward starting the cyber program at Cedarville. He focused his research on cyber operations. Hamman and his colleagues also studied the program requirements the NSA follows in awarding the distinction as a Center of Academic Excellence in Cyber Operations. AFIT already had that distinction.

"While I'm studying for my Ph.D. and working on my dissertation, all the time in the background I was doing reconnaissance, thinking, 'How can we replicate this at Cedarville?" Hamman said. "I was particularly concerned with how we could offer all the necessary academic content."

A key piece of the puzzle was the hiring of Patrick Dudenhofer '04, Assistant Professor of Computer Science and Cyber Operations, in 2014. He immediately enrolled in a Ph.D. program at Wright State University and chose software reverse engineering as his research area — a crucial cyber operations skill that was lacking among the faculty. Shomper was able to leverage his extensive programming knowledge to round out the deeply technical academic content that distinguishes a cyber operations program.

Hamman completed his degree in 2016 and Hamman, Dudenhofer, and Shomper created the three new elective courses that comprise the computer science major's cyber operations specialization. Students were eager to take those classes and went straight into cyber jobs.

In the fall of 2020, the cyber operations specialization was expanded into a major and welcomed its first freshman class. This year there are 33 freshmen and sophomores in the major. And Cedarville stands alongside those 21 other schools as the top tier, according to the NSA. Those other schools are military academies and mostly larger state schools.

of the first 7 cyber programs in the world with professional accreditation through ABET

Accreditation is an

important step in the academic world, and Cedarville can claim that too. ABET is the gold standard for being accredited. ABET started a pilot program for accrediting cyber programs, and Cedarville was one of the first seven schools to be accredited.

#### THE NEXT GENERATION

Cedarville is also involved in building interest in the field among high school students. Students across Ohio can log into the Ohio Cyber Range at no cost and do cyber exercises on virtual machines in the cloud. Cedarville is a Regional Programming Center recognized by the Ohio Cyber Range Institute located at the University of Cincinnati. Hamman, with the help of students and a grant, creates curriculum for the cyber range.

The proof that the momentum has been building longer than Hamman has been at Cedarville is evidenced by a former student who is on campus this spring as a visiting professor. Ben Sprague '06 works in the cyber field, and the faculty jokingly refer to him as the Hacker-in-Residence.

"It's an emerging academic discipline and this is its golden age," said Hamman, who has written academic journal articles about teaching cyber operations. "Fifty years ago, there were no computer science majors or degrees. We are a part of birthing a new academic discipline."

**Jeff Gilbert '87** is an Assistant Professor of Journalism and advisor to the student newspaper, Cedars.

#### **NEW PLACE TO SHINE**

The Center for the Advancement of Cybersecurity will soon shine in its new home in the Scharnberg Business Center. This contemporary space will feature faculty offices, a classroom, space for industry-sponsored research and senior design projects, and a glass-enclosed collaboration area. A beautiful veranda facing Cedar Lake will be the site of alumni and industry partner receptions.

To learn how you can support the Center for the Advancement of Cybersecurity with your gifts, visit cedarville.edu/Scharnberg. You can also email advancement@cedarville.edu or call 937-766-7810.



#### THE DARK SIDE OF GIFTEDNESS

The following is an excerpt from an October 27, 2021, chapel presentation by Philip Miller '04. Listen to his full message at cedarville.edu/MillerOct21.

In the brightness of all of our gifting, there's a shadow side. And if it's not dealt with, it will undo you. It will rot you out from the inside.

Jacob is the twin of Esau, sons of Isaac and Rebekah, Esau becomes Daddy's favorite; Jacob is a Mama's boy. This is a recipe for disaster.

Years pass. Esau comes back from the field, exhausted. Jacob's got a stew on; Esau's hungry. Jacob says, "Sell me your birthright now." Jacob exploits him in this moment. He cheats him out of his inheritance.

Jacob also cheated Esau out of Isaac's blessing. It says in Genesis 27:41: Esau said, "I will kill my brother, Jacob." So Jacob flees to his uncle,

#### God may wound you to heal you. God is our friend, and the wounds of a friend can be trusted.

Laban. On his way, he encounters God in a dream. God renews the covenant He made with Abraham and Isaac.

Jacob ends up marrying both of Laban's daughters and managing Laban's herds. Jacob ends up conniving, crafty, scheming, devious, and with a huge amount of herds of his own.

After 20 years, God says, "It's time to go back to the land of your fathers, and I'll be with you." But Jacob remembers the fury in Esau's eyes.

He sends an entourage to gauge Esau's feelings. They come back and



say, "Esau's coming to meet you. And he's got 400 men with him."

In desperation, Jacob cries out for help. He's scared. And he's starting to sound humble.

Now we can sketch a little bit about his character. He's controlling. He's manipulating. He will bend the rules to come out ahead in life.

We also know he wants a blessed and prosperous life. But his greatest weakness is on display - his selfreliance. Jacob looks out for number one.

He's got a dark side to his great giftedness. Jacob's at the center; God's on the fringe, at least up until the night of Jacob's transformation.

Jacob was left alone, and a man wrestled with him into the breaking of the day. God wounds Jacob's body to

heal his soul. God wrenches his hip to bring Jacob to the very end of himself, to bring him to helplessness, weakness, surrender.

He finally gets God's blessing by grace. Israel inherits the blessings of God not through power but through frailty, not through giftedness, but through surrender.

I want to leave you with three takeaways. First, our strength may in fact be our weakness. Could it be that the thing you're best at is actually the greatest danger to your life?

Not because the gift is bad, but because it cultivates self-reliance in your own heart, self-sufficiency, selfsecurity. God operates on grace. You can't earn it.

Secondly, God may wound you to heal you. God is our friend, and the wounds of a friend can be trusted.

Third thing — brokenness is the posture of blessedness. Children of God go through ups and downs and brokenness. And as we lose ourselves, we find ourselves as we are brought low.

Philip Miller '04 is Senior Pastor of The Moody Church in Chicago, Illinois.

#### LIFE AFTER LIONS

The following is an excerpt from a November 2, 2021, chapel presentation by Bryan Chapell. Listen to his full message at cedarville.edu/ChapellNov21.

In Daniel 6, Daniel is about 90 years old, recognizing what the Scriptures will attest over and over again. The greatest trials may yet lie ahead of us, calling for the devotion of today for the trials of tomorrow.

The King issues a decree, "Worship me or else." When Daniel knew that the document had been signed, he went to his house, where he had windows in his upper chamber open toward Jerusalem.

Three times a day he prayed and gave thanks. Then men found Daniel and said before the King, "Did you not sign an injunction that anyone who makes petition to any God or man within 30 days, except to you, O King, shall be cast into a den of lions?"

The King is caught in his own words. Daniel is in the lion's den, an old man under trial yet again. Trials come in some of the unlikeliest and most unexpected times in our lives.

Our difficulties do not mean that God has departed. God is calling his people to remember that we are called to faithfulness beyond the world that we can see.

Daniel has been faithful and still trial and still suffering. Not just for himself. Seventy years his people have been in slavery. He recognized that God had said that He was going to restore them and bring His blessing to Jerusalem.

The day of trial almost surely comes, and we expect that what God is



going to do is going to build us up. We'll have resources and good times, joy and absence of trial and difficulty, but it doesn't always work that way.

If everything came easy, we would not need God. Sometimes the difficulty in our families, our careers, our studies, and our jobs are God saying, "You can't make this without Me. You desperately need Me."

In your deprivation, you are learning dependence upon someone other than yourself, a strength beyond your own. God is preparing us for the greater work.

Daniel got down on his knees three times a day. He's not standing in his own strength. "I've got to go to God.

I need the Lord; I need his help." God says the time of faithfulness is now. Daniel knows about the lions, and still he worships God.

We are called to faithfulness beyond suffering, beyond what we can see for the purposes of God, because a world is watching how we will handle the suffering and the deprivation. And it's their eternity that is at stake.

God is saying, "I'm at work as you are faithful to Me, even if you don't see it in your lifetime. I am rising above the mess of your family, of the mess that you have made of things, of the moment of crisis that's here. I'm above

#### God is calling his people to remember that we are called to faithfulness beyond the world that we can see.

it, working beyond it, and you can trust Me through this."

Remember who He is and what He has done for you. Your Father is working.

Bryan Chapell is a pastor and the author of numerous books, including Christ-Centered Preaching: Redeeming the Expository

#### WATCH CHAPEL VIA LIVESTREAM 10 A.M. EACH WEEKDAY

- Facebook.com/Cedarville/live
- YouTube.com/CedarvilleUniversity
- cedarville.edu/chapellive
- Download the CU Chapel+ App at cedarville.edu/cuchapelplus

## PROGRAM EXCELLENCE AND **FACILITIES TO MATCH**

For 135 years, academic excellence has been a defining hallmark of Cedarville University. Its early founders desired an institution that integrated faith with every area of knowledge. Today, we see this dream realized through more than 30,000 alumni worldwide living lives of service and Gospel advance as educators, doctors, lawyers, artists, musicians, missionaries, pastors, entrepreneurs, writers, poets, actors, and economists.

The demanding curriculum found at Cedarville, which includes a Bible minor for every student, recognizes that

We must ensure that the excellence of our faculty and programs is matched by the quality and appearance of our facilities and classrooms.

education must be more than simply moving through a prescribed set of courses to prepare for a career. Thus, a Cedarville education is rooted in biblical truth and built around a liberal arts core, seeking to educate the whole

student and prepare graduates to engage a diverse world with critical thinking, analytical reasoning, and problem-solving skills combined with the ability to communicate effectively. Add in an outstanding faculty recognized nationally for its intentional student engagement, the result is graduates who are well-equipped for leadership in their disciplines.

Encompassed in One Thousand Days Transformed: The Campaign for Cedarville is a strategic focus on advancing the quality of our academic programs. We must ensure that the excellence of our faculty and programs is matched by the quality and appearance of our facilities and classrooms.

Through the faithful support of alumni and friends, Cedarville is building unparalleled facilities that match the excellence of our academic programs.

Civil engineering students are already engaged in handson, kinesthetic learning in the new Civil Engineering Center. Later this semester, athletic training students, and in 2023, PA (physician assistant) students, will enjoy a new space as part of the Callan expansion. This fall, construction of the new 65,000-square-foot Scharnberg Business Center, future home to the exceptional business and communication programs, as well as the Center for the Advancement of Cybersecurity, will begin. In the coming years, Cedarville will invest resources in a stately facility at the entrance of campus that will serve as a welcome center and home to many of Cedarville's liberal arts programs.

Investment in academic programming and facilities assists the University in recruiting and retaining world-class faculty. Faculty at Cedarville University hold the highest degrees in their disciplines from some of the most prestigious institutions of higher education around the globe. These outstanding scholars could serve as professors anywhere in the world. Yet they choose to serve at Cedarville University because of the call God has placed on their lives to serve at a distinctively Christian institution with a robust academic community.

#### As we make these kingdom and financial investments, will you join us?

As we make these kingdom and financial investments, will you join us in our mission to transform student lives through excellent academics and intentional discipleship in submission to biblical authority? Now more than ever, our world needs Cedarville alumni, educated and prepared through the integration of faith and discipline, serving as transformative servant-leaders and agents of change in their families, churches, and workplaces for the Word of God and the Testimony of Jesus Christ.

Will Smallwood is Vice President for Advancement. He earned his Ph.D. from Southern Seminary.

#### **EXCITEMENT BUILDS FOR THE SCHARNBERG BUSINESS CENTER**



Each new artist's rendering stokes the anticipation for the Scharnberg Business Center. This future gem will be a striking addition to the north side of Cedar Lake. Construction is slated to begin this year, pending completion of the fundraising efforts. These renderings reveal outdoor and indoor perspectives of a two-story learning space designed primarily to serve the School of Business. Features include a 500-seat auditorium, classrooms, trading room, Center for Free Enterprise, offices for business school faculty, the Department of Communication, and the Center for the Advancement of Cybersecurity.



Leave a legacy or honor a loved one with your naming-level gift, which may be given as a one-time contribution or over four to five years. Please pray about a \$5,000 gift per year for the next five years to name an office or a \$25,000 gift per year over the next four years to name a classroom.

Your gift of \$20, \$50, \$100, or more will help us create a business-as-mission learning environment and provide a setting where 21st century entrepreneurs are trained and prepared to influence every facet of society for Christ.

Offices	\$25,000
Common Areas and Study Spaces	\$25,000-\$1,000,000
Classrooms	\$100,000-\$1,500,000
Conference Spaces	\$150,000-\$1,000,000
Trading Room	\$750,000
Auditorium	\$3,000,000

For more information, visit cedarville.edu/Scharnberg. You can also email advancement@cedarville.edu or call 937-766-7810.









### \$100 MILLION MILESTONE



In October 2021, Cedarville University officially launched One Thousand Days Transformed: The Campaign for Cedarville. At that same time, President Thomas White shared with the campus community that the University had secured financial commitments totaling \$95.6 million toward the \$125 million goal.

By January, Cedarville had surpassed \$100 million in its campaign with a late end-of-year push. As of February 8, that number had already surpassed \$103 million toward this largest fundraising campaign in the University's 135-year history.

"The One Thousand Days Transformed campaign will enable Cedarville to equip students for career success and lifelong impact for the Gospel," said White. "We are grateful for the support this campaign has already received from the many donors who embrace what we are doing at Cedarville. We give thanks to God for the privilege of stewarding the resources He has so graciously provided through this campaign."

In the final months of 2021, Cedarville received a \$2 million commitment from an anonymous donor, a \$1 million contribution from The Schiewetz Foundation in Dayton, and more than \$700,000 during the annual Giving Tuesday initiative in November.

Since the comprehensive campaign launched October 1, more than 2,500 members of the Cedarville community have supported the campaign through 37,094 financial gifts. More than 400 first-time donors gave gifts to Cedarville University.

The One Thousand Days Transformed campaign features strategic projects that will enhance the education provided to Cedarville students and sustain the University for the future. Of the \$125 million goal, \$92.5 million will be used for University facilities; \$15 million for student scholarships; \$10 million for enhancing the college experience for students, including financial assistance in domestic and international missions trips; and \$7.5 million to provide long-term sustainability through planned gifts.

Remaining campus building projects that are part of the campaign include the Scharnberg Business Center, a welcome center and academic facility, an athletic and academic expansion to Callan Athletic Center, and a women's residence hall. Naming opportunities are available. For more information, visit 1000daystransformed.cedarville.edu.

#### **KEEP UP WITH CEDARVILLE**

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# COLLEGE TO LAW ENFORCEMENT PATHWAY PROGRAM BEGINS



Patrick Oliver speaks at the news conference June 23, 2021, announcing the College to Law Enforcement Pathway Program. Gov. Mike DeWine is standing to his right.

The College to Law Enforcement Pathway Program accepted its first 11 candidate enrollees in early 2022. The program is being piloted by Cedarville and Central State University and exists to create a pool of pre-qualified, college-educated, mentored candidates for law enforcement agencies in Ohio.

The program was first introduced last year by Ohio Governor Mike DeWine, and it is a byproduct of the Governor's implementation of the Office of Law Enforcement Recruitment. DeWine asked Patrick Oliver, the Ph.D.-credentialed director of Cedarville University's criminal justice program, to serve as the lead consultant to the statewide office and the new academic program.

The program welcomes qualifying upperclassmen criminal justice majors with a minimum 3.0 GPA, history of compliance with the program's six core values — integrity, service

orientation, human relations skills, team compatibility, performance-driven, and self-control — and professor recommendations to fill out a pre-application.

Candidates who make it past the pre-application phase begin a thorough vetting process, which is required before they are fully accepted into the program. Officer mentorship is part of the program, and participants are guaranteed a job with a partnering law enforcement agency upon graduation.

Working with Governor DeWine and Ohio's Office of Law Enforcement Recruitment (OLER) is central to the success of this program.

"College students are developed, mentored, and guaranteed a job," said Oliver. "Police agencies get top quality hires, and the participating universities have a distinctive honors program that places criminal justice majors in jobs after college."



If you love Cedarville University

– home of the Yellow Jackets –
this is the place to shop. Browse
Cedarville apparel, gifts, and
athletic-branded products
available online.

Visit cedarville.edu/bookstore

#### **UPCOMING EVENTS**

#### MARCH

- 18 All-Access Orientation
- 25 CU Friday
- 31 Spring Play: The Beams Are Creaking

#### **APRIL**

1–2, 7–10 Spring Play: *The Beams Are Creaking* 

8 All-Access Orientation

#### MAY

7 126th Annual Commencement

May 11-June 4 The Transformed Tour

#### JUNE

- **6–10** Academic Camps: Engineering, Music, Psychology, Worship, Writing
- 13-17 Academic Camp: Worship
- 20-24 Academic Camp: Theatre
- June 27-July 1 Academic Camps: Art and Design, Criminal Justice, Engineering, Pharmacy

#### JULY

11–15 Academic Camps: Athletic Training, Geology, Molecular Biology, Nursing To register for camps, visit cedarville.edu/academiccamps.

cedarville.edu/events



# GET A JUMP ON 1,000 DAYS WITH DUAL ENROLLMENT!

Qualified 7th-12th grade students can earn high school and college credit for reduced or no cost.

Visit **cedarville.edu/dualenrollment** or call 937-766-3333 today to learn more.



# YELLOW JACKET

#### **EXPANSION NEARS COMPLETION**





As part of One Thousand Days Transformed: The Campaign for Cedarville, the University's ability to develop Yellow Jacket student-athletes will grow by leaps and bounds.

The academic and athletic expansion at Callan Athletic Center is scheduled for completion in April.

The athletics transformation will include a dedicated weight room so athletes can develop their physical strength for performing at the highest level. This will free up the current weight room, so the entire student body

Leave a legacy or honor a loved one with your naming-level gift, which may be given as a one-time contribution or over four to five years. Please pray about a gift of \$5,000 per year for five years to name an office or a \$50,000 gift per year given over 10 years to name the Athletic Team Room.

Your gift of \$20, \$50, \$100, or more will help us promote the physical health and wellbeing of all students, encourage our athletes to strive for excellence that honors the Lord, and grow our health sciences professional program.

NAMING OPPORTUNITIES				
PA Program Offices	\$25,000			
Athletic Offices	\$25,000			
Labs and Classrooms	\$250,000-\$500,000			
Athletic Team Room	\$500,000			
Varsity Weight Room	\$1,500,000			

For more information, visit

cedarville.edu/AthAcadExpansion. You can also email advancement@cedarville.edu or call 937-766-7810.

# SPORTS





has more opportunity to experience the health benefits of weight training.

Student-athletes will hold team meetings, review game film, and host events in a new beautifully designed 2,000-square-foot team room. Cedarville Athletics will also



use this branded venue during recruiting visits with future Yellow Jackets. There will also be new office space for coaches and athletics department staff.

In addition to the growth of our athletics capabilities, the expansion and renovation of the second floor will also provide office space, classrooms, labs, and student gathering space for our Master of Athletic Training program and our developing PA (physician assistant) program.

The PA program is slated to start classes in 2023, pending approval by its professional accreditor, while the M.A.T. will begin June 2022.

#### CHRIS CROSS NAMED ATHLETIC DIRECTOR



After performing a national search, Cedarville University has chosen Chris Cross as its new Athletic Director.

Cross has been a member of Cedarville's athletic department since 2005. He served as an Assistant Athletic Director starting in

2014 and, since July 2021, has held the role of Interim Athletic Director.

He replaces longtime Athletic Director Alan Geist '83, who is now serving on the faculty of the School of Business.

As Athletic Director, Cross will oversee the University's 16 NCAA II intercollegiate teams and athletic training, and he will serve on the President's Cabinet.

Cross and his wife, Barbara, live in Cedarville and have three sons: Mason '21, Colby '24, and Tyler.

#### SIGN UP FOR SUMMER SPORTS CAMPS

It's that time of year to begin planning for the summer. Cedarville sports camps and clinics are a great way for your young athlete to grow and learn in an environment where Christ is honored, and the Word of God is the ultimate coaching guide. Register today at cedarville.edu/summersportscamps!

	-	-
Boys Basketball		
Elite Camp	June 4	Grades 9-12
Day Camp	June 6–8	Grades 2-6
Team Camp	June 9–11	Grades 7-12
ID Camp	June 26–29	Grades 7-12
Girls Basketball		
Team Camp	June 13–15	Grades 9-12
Team Camp	June 16–18	Grades 9-12
Individual Camp	June 20–22	Grades 4–8
Elite Camp	June 25	Grades 9-12
Boys Soccer		
ID Camp	June 9–11	Grades 912
Kids Camp	June 20–23	Grades K-5
Team Camp	July 10-12	JV and Varsity

Girls Soccer		
Stinger's Camp	July 6–8	Grades 5–8
Team Camp	July 10-12	JV and Varsity
Elite Camp	July 13-16	Grades 9-12
Girls Volleyball		
Elite Camp	July 10-13	Grades 10-12
Developmental Camp	July 10-13	Grades 7–12
Team Camp	July 13–15	Freshman, JV, and Varsity
Spiketacular	July 16	Freshman, JV, and Varsity
Day Camp	July 18–21	Grades 4-6

# MURRAY MURDOCH, AN EXAMPLE OF FACULTY EXCELLENCE, RETIRES AFTER 56 YEARS

J. Murray Murdoch, Distinguished Professor of History and Government, announced his retirement this fall after 56 years of service at the University. Cedarville honored him and his wife of 63 years,

Ruth, during chapel on November 18. The special chapel can be viewed at cedarville.edu/chapel.

Murdoch earned his doctoral degree in American history from Northwestern



University. He served as chair of Cedarville's history department and is well known on campus for his course on social movements.

Murdoch also founded the Civil Rights Bus Tour,

a 2,000-mile journey during Cedarville's fall break that visits historical landmarks, including the Edmund Pettus Bridge in Selma, Alabama.

He is also a stalwart of biblical

integration and has been a strong voice for making sure that all courses in all subject areas reflect a biblical worldview.

Murdoch penned the 100-year history of then Cedarville College.

He also made history as Cedarville's men's tennis coach. Murdoch's teams recorded 563 wins during a stellar 29year career, and his men's team claimed 23 National Association of Intercollegiate Athletics (NAIA) District titles.

#### REMEMBERING THREE BELOVED PROFESSORS







This academic year, Cedarville said farewell to three beloved members of our faculty family.

Donald Deardorff, Professor of English, passed away unexpectedly on October 22 from a heart-related condition. Deardorff joined Cedarville University's English, literature, and modern languages (ELML) department in 1996.

During his 25 years of faithful teaching, Deardorff specialized in major-specific classes, including Literary Analysis, Literary Theory, English Seminar and Multi-Ethnic American Literature. Additionally, he published scholarly works on favorite topics such as sports, healthy masculinity, and Bruce Springsteen.

James McGoldrick, Professor Emeritus of Social Science, passed away on December 30 at the age of 85. He taught at Cedarville University from 1973-2001. McGoldrick is remembered as an outstanding scholar with a love for the local church, church history, and the Lord Jesus Christ.

Before his career as a professor, he served as pastor at two churches in New Jersey. He authored many books and articles for a variety of academic and church publications, including The Mind of John Calvin, published in 2019.

David Matson '60, Professor Emeritus of Music History, passed away on January 12 at the age of 82. Matson taught at Cedarville from 1965 to 2009 and was instrumental in building the Department of Music and Worship and its programs into what they are today.

In the days before daily live chapel, Matson was the announcer when chapel was aired live a few times each academic year.

He was also inducted into the Cedarville Athletics Hall of Fame in 2001, receiving the Nedra Callan Meritorious Service Award for his many years of faithfully announcing Yellow Jackets men's basketball games. He served as the men's basketball announcer from 1957 to 2001.



# REWARDING EXCELLENCE: THE PRESIDENT'S TROPHY

The President's Trophy has been awarded every year at commencement, beginning in 1951 with Jack Bellville.

The trophy transitioned to a plaque in 1959. This award is the highest honor for a graduating senior, recognizing leadership, ministry, community and campus involvement, athletic performance, and academic achievement, and is an annual reminder of Cedarville's longstanding commitment to academic excellence.



#### A LEGACY OF EXCELLENCE

When the Lord blessed me in 1974 to become part of what He was doing in and

through Cedarville College, it was obvious there was a focus on academic excellence throughout the institution. It was verbalized and exemplified not only by President James T. Jeremiah and Academic Dean Clifford Johnson (who would later

become my husband) but also by my new outstanding faculty colleagues, many of whom were working diligently to complete their terminal degrees while teaching fulltime at the college and serving faithfully in their local churches. Having just completed my Ph.D., I was in awe of their passion and fervor.

God had clearly brought each one of them to the college to be an integral part of what He was doing here. In President Jeremiah's annual president's report in 1967, he wrote that "spiritual vitality and academic excellence are not opposite and unreconcilable extremes. They can and must be a part of any Christian college. The trustees, faculty, and administration of Cedarville are committed to the emphasis of both." (James T. Jeremiah, President's Annual Report 1967, p. 1).

Both President Jeremiah and Cliff understood that offering an excellent education would require accredited professional programs. They both believed they could maintain their doctrinal and theological purity while achieving these outside verifications of academic quality and excellence. While not a common position among Christian colleges of the day, they were absolutely right.

Cedarville College had lost the ability to prepare teachers in the last years prior

to the merger with the Baptist Bible Institute. Eager to work on this important

assignment, Cliff went to Columbus to meet with the assistant superintendent of public instruction. The gentleman went on a bit of a tirade for several minutes, rehearsing many of the past failures of the college.

After several minutes and a momentary pause,

Cliff, in his own inimitable style, said, "Yes, sir. You're right. Can you help us do what we need to do?" Cliff said the gentleman's demeanor changed dramatically, and he agreed to help lead Cedarville toward the desired accreditation. Our first elementary education graduates were granted their degrees in June 1967, followed by secondary education in 1968.

During my tenure here, our teacher education graduates have been eagerly sought by area schools, and I have often heard how they are a blessing as they serve their Savior as excellent teachers. I hear the same about our engineers, nurses, business graduates, artists, pastors, musicians, history majors, and on and on.

Thank you, President Jeremiah and Cliff, for building this legacy of excellence as we seek to live out Colossians 3:23–24: "Whatever you do, work heartily, as for the Lord and not for men, knowing that from the Lord you will receive the inheritance as your reward. You are serving the Lord Christ" (ESV).

**Pamela D. Johnson** is Dean of Undergraduate Studies. She earned her Ph.D. from The Ohio State University.

# **ACADEMIC CAMPS** at Cedarville University

Where High School Students Explore Their Future

Music, science, history, and more await high school students at one of Cedarville's summer academic camps! They will spend a week exploring their passion with incredible instructors and cool college students. They'll get to experience campus life, meet new friends, and make great memories. There is something for everyone at Cedarville's academic camps!

Join us this summer: cedarville.edu/academiccamps



# > PA Rotations Needed in Women's Health, Pediatrics, ER Medicine

Cedarville University's developing Physician Assistant program is **actively recruiting clinical preceptors**. If you are a healthcare provider in **women's health**, **pediatrics**, **emergency medicine**, **or any other specialty** and have a heart to equip the next generation of Christ-following clinicians, we invite you to join our team.



To learn more and get involved:

> cedarville.edu/PApreceptors



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