

# School of Engineering

CHRISTIAN BROTHERS UNIVERSITY

## News - July 2001

### RECOGNITION DINNER SET TO HONOR BROTHER PHILIP MORGAN

A recognition dinner honoring **Brother Philip Morgan** has been scheduled for Thursday, *October 4, 2001*, at the Ridgeway Inn, 5679 Poplar Avenue (6:00 p.m. cocktails, 7:00 p.m. dinner). Proceeds from this dinner will be used to establish the Engineering Lab Endowment Fund. The fund will help the five engineering programs -- ChE, CEE, ECE, ME, and MEM -- to maintain lab facilities. Please mark this date! More information will follow in the future.

The best way to describe Brother Morgan's significant impacts to the engineering profession and CBU Engineering is to read the citation of the Lifetime Service Award he received from CBU in 1995:

Christian Brothers University  
Lifetime Service Award  
Brother Philip Morgan, F.S.C., P.E.

We are highly pleased to honor you today with the rarely given Lifetime Service Award in recognition of your life of service to the Christian Brothers University family, and as a founder of the University's School of Engineering. You currently serve as Professor Emeritus for the School of Engineering.

You hold a B.S. in chemistry from St. Mary's College in Winoma, Minnesota; an M.A. in education from DePaul University; and a BSEE and an MSEE from the Illinois Institute of Technology.

In 1954, you joined the faculty of the then Christian Brothers College. Since that time, you have served as Dean of Men, Vice President for Student Services, and head of the University's Electrical Engineering Department, among a host of other leadership roles.

You have been active in numerous engineering societies as an officer, and a committee chairman on the national, regional, and local levels. You are also a member of Eta Kappa Nu and Tau Beta Pi engineering fraternities.



*Br. Philip Morgan*

The most memorable of all your achievements came in 1979 when you were chosen -- from 440 branches across the world -- as one of ten IEEE Outstanding Counselor/Advisors. This award acknowledged you for your motivation and dedication to the students and was especially meaningful to you because you were nominated by the students.

Some of your many awards and honors include the Memphis Joint Engineering Council's Featured Engineer of the Year for 1965, and the Outstanding Engineer of Memphis in 1975. You also received the IEEE Centennial Medal in 1984. In 1991, you were awarded the Maurelian Medal from Christian Brothers University, one the school's highest honors. In 1994, you were awarded a Lifetime membership from the National Society of Professional Engineers and the IEEE. That same year, you also received the Distinguished Service Award from the Memphis Chapter of the Tennessee Society of Professional Engineers, as well as from the Tennessee Chapter. The Chicago City Council sent you a Congratulatory Resolution in response to your winning the award.

With each of these endeavors, whether in the classroom, the laboratory, or in the community at large, you have brought tireless energy, enthusiasm, dedication, and a contagious spirit. These qualities have had an enormous influence on your students as well as your contemporaries, and your loyalty to Christian Brothers' mission of education has truly left a lasting legacy on past, present, and future generations.

Therefore, in recognition of your outstanding achievements at CBU and throughout the community at large, the Alumni Association and Christian Brothers University take great pleasure in honoring you, Brother Philip Morgan, with the 1995 Lifetime Service Award.

Sincerely Yours,

Brother Michael J. McGinniss, F.S.C.  
President, Christian Brothers University

Carolyn Berry Harper '84  
President, CBU Alumni Association

Lisa Dean Forck  
Director of Alumni Affairs

October 7, 1995

**NEWEST ECE  
PROFESSOR:  
ROBERT L. DRAKE,  
PH.D., P.E.**



*Dr. Robert Drake*

**Dr. Robert L. Drake, P.E.**, is the newest professor in the Electrical & Computer Engineering Department, replacing Mr. Joe Beaini who left CBU for Qwest in Colorado. Last academic year, Dr. Drake taught in the department as an adjunct faculty member.

Dr. Drake attended Tulane, UCLA, and Mississippi State University, where he studied electrical engineering and applied mathematics. He has previously taught electrical engineering at Tulane University and at the University of Tennessee at Martin. He has experience in the space industry at Space Technology Laboratories of Ramo-Woolridge, where he was on a design team of the flight control system for the Minuteman intercontinental ballistic missile and simulated staging operations for Thor and Titan boosters, and served in project engineering for early launches of Minuteman at Cape Canaveral.

His experience in the process industries has been at Proctor and Gamble, American Cyanamid, and Monsanto Chemical. He has consulted in the control of electric power with the New Orleans Public Service and Louisiana Power and Light Company.

Dr. Drake is a registered professional engineer in Tennessee and Louisiana. He has specialized in automatic control and industrial electronics. He has published about 35 papers, is a life member of IEEE and a member of ASEE, and has served as an expert witness in approximately 60 legal cases since 1978. He is currently interested in connecting computers to other physical equipment, especially for control purposes.

**LECIA MARTIN, P.  
E., RECOGNIZED BY  
CONGRESSMAN  
HAROLD FORD, JR.**

Congratulation to **Lecia Martin, P.E.**, for recently receiving a Proclamation from Congressman Harold Ford, Jr.! Lecia is a CBU mechanical engineering graduate, class of 1994. She is a registered professional engineer in the State of Tennessee and the owner of Dunning-Martin Engineering. Below is the content of the Proclamation:



*Lecia Martin*

United State House of Representatives  
PROCLAMATION  
By  
Congressman Harold Ford, Jr.

WHEREAS, it is an honor and a delightful privilege for me to salute Ms. Lecia Martin, P.E., for her contributions to our community as the owner and engineer of Dunning-Martin Engineering, and

WHEREAS, as the owner of the Dunning-Martin Engineering consultant engineering firm, Ms. Martin has reached tremendous heights of achievement. She is recognized as the first and only African-American woman to become a consultant mechanical engineer in the city of Memphis and possibly for the state of Tennessee. Additionally, as the owner of a prolific firm, she holds a special place for her commitment to excellence as demonstrated through the work of Dunning-Martin Engineering, and

WHEREAS, history records that Ms. Lecia Martin, P.E., graduated from Memphis' Melrose High School and State Technical Institute of Memphis before attending Christian Brothers University. It was here that Ms. Martin received her degree in mechanical engineering. Following graduation, she received all of her necessary training and licenses to practice engineering as a consultant, and

WHEREAS, Lecia Martin is an inspiration to many throughout the Mid-South community for the debt of commitment and faith in God exemplified in her life. By virtue of her will and devotion, she has excelled and helped to establish herself and firm as productive components of our local community.

It is a great joy that I salute Ms. Lecia Martin, P.E., on this special occasion, and wish for her good health, peace, and strength in the years ahead.

NOW, BE IT THEREFORE RESOLVED, that I, HAROLD FORD, JR., Member of Congress, join with you as you are honored this 20th day of March, 2001, having set my hand and caused the great seal of the Congress of the United States to become affixed here in Memphis, Tennessee.

HAROLD FORD, JR.  
Member of Congress

**STUDENTS! WANT  
TO BUY A PC?  
CHECK THIS FIRST**

Engineering students! Before you buy a PC, please check the School of Engineering web site at

<http://www.cbu.edu/engineering>

for our recommendations. Also Gateway Computer Co. offers CBU faculty, staff, and students special rates on purchasing a computer. You can order directly from Gateway's web site at

<http://esource.gateway.com/ChristianBrothersU>.

To receive the special rates from Gateway, use the following code: *BRPH11631*.

**STUDENT NEWS**

Congratulations to the ChE and ME seniors for having a 100% passing rate on the Fundamentals of Engineering exam last April. Very impressive!

Congratulations to the following MEM students who completed their Construction Management (CM) and Information Technology (IT) Certification during the 2000-2001 academic year: **David Barker** (IT), **Jonathon Carter** (IT), **Johnny Keenum** (IT), **Michael Nasrallah** (CM), **John MacKay** (CM), **Ulysses Polk** (IT), **Dawn Scruggs** (IT), **Stewart White** (IT), **Brian Wolfe** (IT), and **Bernard Zawada** (IT).

**ALUMNI NEWS**

**Jon Mosteller** (CE '98) completed the Ironman California Triathlon in Oceanside, California, on May 19th. The triathlon is considered by some the most grueling endurance event in the world. It consists of a 2.4 mile ocean swim, a 112 mile bike ride, and a full 26.2 mile marathon run. He finished in 12 hours, 53 minutes, and 23 seconds. Over 1,700 athletes competed in the event which has a 17-hour time limit. Jon plays guitar when he is not running or working at MLGW. Wow!

**Jack Griffith** (ME '01) accepted a position with Alliant Techsystems (ATK) in Iuka, MS. ATK is a \$1.6 billion aerospace and defense company. Jack works as a Process Engineer at their southern composites facility in Iuka.

**Imelda Vejas Cauley** (CE '96) recently passed her PE examination. Imelda recently started working as a Structural Engineer with River Consulting, Inc. in Columbus, Ohio. River Consulting provides feasibility planning, preliminary design, final design, project management, start-up, and construction related support services to clients in the bulk material handling industry.

Congratulations to **Matt Locke** (CE'95) for passing the PE exam recently! Matt is currently employed by International Comfort Products as a Commercial Sales Manager at its manufacturing

facility in Lewisburg, TN. Last May he received an MBA in Finance from the M.J. Neely School of Business at Texas Christian University. Additionally he was recently elected to the Board of the Phoenix Club of Nashville, a non-profit agency dedicated to fundraising efforts to support the Boys and Girls Clubs of Tennessee.



Mr. and Mrs. Robert Borrum Sr. of Memphis are pleased to announce the forthcoming marriage of their daughter, **Cynthia Renee Borrum** (MEM '99) to Mr. **Rawn Demonn Matthews** (MEM '00), son of Mr. and Mrs. Russell V. Matthews II, of Mt. Airy, Maryland. The couple will unite in marriage on July 28, 2001 at Cummings Street M. B. Church in Memphis, Tennessee. The reception will follow at the MATA Central Train Station.

Cynthia is a graduate of Whitehaven High School. She received a Bachelor of Science degree in Mechanical Engineering from Tennessee State University where she became a member of Alpha Kappa Alpha Sorority, Inc. She received a Master of Engineering Management degree from Christian Brothers University. Cynthia is a Project Engineer for FedEx Express. Mr. Matthews is a graduate of Linganore High School in New Market, Maryland. Rawn received a Bachelor of Science degree in Industrial Engineering from Florida A&M University. He received a Master of Engineering Management degree from Christian Brothers University. Rawn is a Loss Control Representative for Chubb Insurance Company. After a honeymoon abroad, the couple will reside in the metropolitan Washington, D. C. area.

## FACULTY/STAFF NEWS

**Dr. Mike Santi** (ME) gave a paper presentation on his work entitled "Rocket Engine Health Monitoring Using a Model-Based Approach" at the Aerospace Systems Condition Monitoring session of the 2001 AIAA/ASME/SAE/ASEE Joint Propulsion Conference in Salt Lake City, Utah, on July 11.

**Dr. K. Madhavan** (CEE) attended a Professor Training Course in Asphalt Technology at the National Center for Asphalt Technology (NCAT), Auburn University, during June 2001. Twenty-six professors were selected from across the USA and Canada for this two-week short course. As part of this course, they all visited ASTEC Industries in Chattanooga, TN, a manufacturer of heavy equipment in asphalt construction and testing equipment. The course focused on issues related to Superpav asphalt mix design and construction.



**Dr. Asit Ray** (ChE) and **Dr. Siripong Malasri** (Dean) attended a one-day SBIR Workshop at the University of Tennessee (Memphis) on July 13, 2001. The workshop, offered by Tennessee Technology Development Corporation, is part of a statewide series of workshops providing guidance for winning Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards.

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