

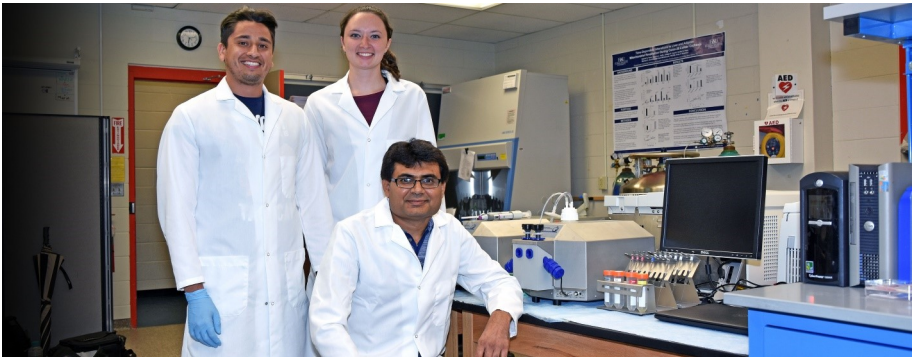
# IMPACT

## Transforming Education



### Gift Launches The Cane Institute for Advanced Technologies

A \$1 million gift recently received from entrepreneur, Daniel Cane, and his wife, Debra Cane, will establish [The Cane Institute for Advanced Technologies](#) at [A.D. Henderson University School](#) (ADHUS) and [Florida Atlantic University High School](#) (FAU High School). The Institute will help to further advance science, technology, engineering, and mathematics (STEM) research and education at ADHUS/FAU High School and provide students the resources necessary to investigate ... [Read more](#)



### ESHP's Biochemistry Lab Fosters Student Research

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That is the motto of the Department of Exercise Science and Health Promotion (ESHP) in Florida Atlantic University's College of Education (COE), where ESHP exercise scientists disseminate research that addresses major health issues stemming from physical inactivity. “The ultimate goal is raising the visibility and profile of FAU on the national and international ... [Read more](#)



### Patterson Scholars Learn by Giving Back to the Community

Best-selling author, James Patterson, generously funds yearly scholarships for Florida Atlantic University (FAU)'s College of Education (COE) students. The purpose is to form a learning community among scholarship recipients that will supplement their regular program of study and provide additional training to support them as developing teachers with emphasis on reading and writing education. During her first year as sole faculty advisor for the James Patterson Teacher Education Scholarship, Bessie P. Dernikos, Ed.D., not only facilitated ... [Read more](#)



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Florida Atlantic University

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# Gift Launches The Cane Institute for Advanced Technologies



A.D. Henderson University School (ADHUS) and Florida Atlantic University High School (FAU High School) recently received a \$1 million gift from Daniel Cane (center), Chief Executive Officer (CEO) and co-founder of Modernizing Medicine, and his wife, Debra Cane (second from right). During the announcement, (from left) Joel Herbst, Ed. D., Assistant Dean, PK-12 Schools & Educational Programs; Valerie J. Bristor, Ph.D., Dean, College of Education; and Sherry Bees, M.S. (right), Principal/Director of ADHUS/FAU High School express their gratitude.

(Photo credit: A.D. Henderson/FAU High School)

By Josephine Elliott | JULY 31, 2018

A \$1 million gift recently received from entrepreneur, Daniel Cane, and his wife, Debra Cane, will establish [The Cane Institute for Advanced Technologies](#) at [A.D. Henderson University School](#) (ADHUS) and [Florida Atlantic University High School](#) (FAU High School). The Institute will help to further advance science, technology, engineering, and mathematics (STEM) research and education at ADHUS/FAU High School and provide students

*“The school is creating opportunities for students to rise to their full potential.”*

*-Daniel Cane  
Chief Executive Officer (CEO)  
and co-founder,  
Modernizing Medicine*

the resources necessary to investigate problems and seek real world solutions, noted Joel Herbst, Ed.D., Assistant Dean, PK-12 Schools & Educational Programs. Through an integrated approach and student-centered learning environment, the concept of STEM education allows students to use math and science principles; apply engineering practices; and explore technology in areas such as cybersecurity, autonomous vehicles, robotics, virtual reality, augmented reality, automation and artificial intelligence.

“The quality of education that the faculty and staff at Henderson and FAU High provide will prepare our children and other students for a lifetime of success,” stated Daniel Cane. “This gift will build on the already stellar program and hopefully encourage other parents and supporters of STEM and public education to contribute and help raise the profile of South Florida’s world-class schools.”

The Canes are also the first to contribute to the “Let’s Build This Together” capital campaign, which seeks to raise \$41.5 million to build a new state-of-the-art facility for ADHUS/FAU High students. A 2013 consultant’s report determined the original ADHUS building was too costly to repair, prompting a capital campaign to replace it with a new structure that would double the space. This would eliminate the need for portables and add a gymnasium and auditorium for FAU High School.

Located on FAU Boca Raton campus, the Title 1 school has a diverse student population, which benefits from innovative, faculty-developed research and curriculum. ADHUS/FAU High School is a public laboratory school for teacher preparation programs and a national exemplary model for school systems. ADHUS serves grades K-8; FAU High, grades 9-12.

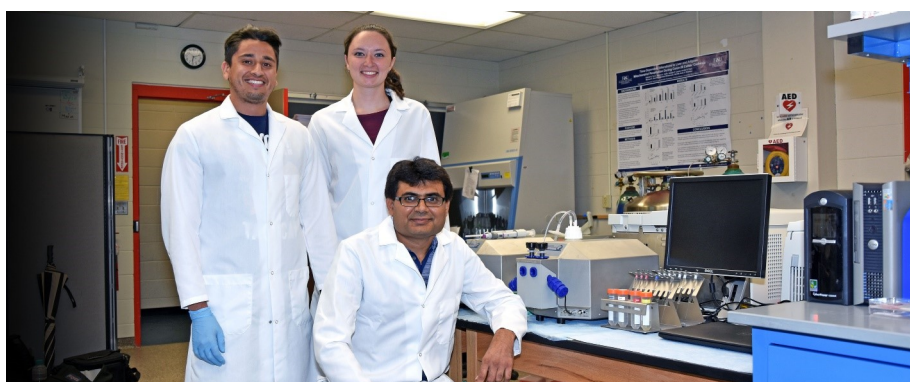
Cane is the Chief Executive Officer (CEO) and co-founder of [Modernizing Medicine](#), a healthcare IT company. He earned a B.S. in applied economics from Cornell University, where as an undergraduate, he co-founded Blackboard, Inc. Cane is a former member and vice chair of FAU’s Board of Trustees. He is a mentor to entrepreneurs and active in the local community.

For more information about the schools, visit their websites at [www.adhus.fau.edu](http://www.adhus.fau.edu) and <http://www.fauhigh.fau.edu/>. To explore ways to give, contact Mickey Zitzmann, Development Officer, Office of PK-12 Schools and Educational Programs at FAU at [mzitzmann@fau.edu](mailto:mzitzmann@fau.edu).

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# ESHP Biochemistry Lab Fosters Student Research



Nishant Visavadiya, Ph.D. (seated), Coordinator, Research Program Services, Exercise Science and Health Promotion (ESHP), assists Gabriel Pena (left) and Jessica Halle with conducting an experiment in the ESHP Biochemistry Lab at Florida Atlantic University (FAU)'s College of Education (COE). Visavadiya oversees the day-to-day operation of the ESHP Biochemistry lab. Presently, Gabriel and Jessica are graduate students in the ESHP master's degree program, where they both serve as Teaching Assistants. Gabriel earned the department's 2018 Graduate Student Award. He plans to graduate in Summer 2018 and pursue the Ph.D. in Integrative Biology, a multidisciplinary doctoral program, in the Charles E. Schmidt College of Science's Department of Biological Sciences at FAU. Jessica received a B.S. degree in ESHP from FAU in Fall 2017 and the COE's Undergraduate Researcher of the Year Award during COE's 2018 Honors and Awards Ceremony.

(Photograph by Teresa Crane)

By Josephine Elliott | JULY 31, 2018

**“Do not be afraid to spend energy through *EXERCISE*; it is the only platform to renovate ourselves into a healthy life.”**

That is the motto of the Department of Exercise Science and Health Promotion (ESHP) in Florida Atlantic University's College of Education (COE), where ESHP exercise scientists disseminate research that addresses major health issues stemming from physical inactivity. “The ultimate goal is raising the visibility and profile of FAU on the national and international stage through impactful and meaningful research,” explained Michael Whitehurst, Ed.D., FACSM, Chair, ESHP.

These exercise scientists also mentor a growing number of ESHP students who use ESHP's Exercise Biochemistry Laboratory. In fact, ESHP has over 1,200

*“Students and faculty are looking at different exercise impact on human health and quality of life.”*

— Nishant Visavadiya, Ph.D.,  
Coordinator, Research  
Programs Services, Exercise  
Science and Health  
Promotion's Biochemistry Lab

undergraduate students, an enrollment ranking in the top five of all undergraduate programs, and serves as home to over 70 graduate students. Under the guidance of four principal investigators, ESHP students apply basic and clinical science techniques to conduct advanced research.

The four principal investigators in ESHP are:

- Whitehurst, who studies the role of exercise in combating neurodegenerative disease;
- Chun-Jung Huang, Ph.D., FACSM,

Associate Professor, whose work is revealing the importance of physical exercise in reducing obesity related inflammation;

- Michael Zourdos, Ph.D., Associate Professor, whose research is focused on the behavioral and molecular responses to strength training in athletes and cancer patients; and
- Andy Khamoui, Ph.D., Assistant Professor, who uses an animal model of cancer cachexia to study how exercise can reduce symptoms and weight loss associated with cancer treatment.

The newest member of ESHP's research team is Nishant Visavadiya, Ph.D., Coordinator, Research Programs Services, ESHP, an experienced basic scientist trained in molecular biology, who oversees the day-to-day operation of the Exercise Biochemistry Lab. He assists ESHP investigators and students in hypothesis generation, experimental design, and external funding efforts.

The Exercise Biochemistry Laboratory is the principal on-campus facility dedicated to understanding which cellular and molecular signals transmit the health-promoting effects of physical activity. “This mission is timely and highly relevant to public health given that physical inactivity is a root cause for many chronic diseases,” declared Visavadiya.

For more information about the work of the Department of Exercise Science and Health Promotion (ESHP) exercise scientists, contact Nishant Visavadiya, Ph.D., Coordinator, Research Programs Services, ESHP, at [nvisavadiya@fau.edu](mailto:nvisavadiya@fau.edu). To explore ways to give, contact Jorene Jameson, Ph.D., Director of Development, College of Education, at [jameson2013@fau.edu](mailto:jameson2013@fau.edu).

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# Patterson Scholars Learn by Giving Back to the Community



Thanks to the generosity of best-selling author, James Patterson, 13 James Patterson Teacher Education Scholarships were awarded for the 2017-2018 academic year to Florida Atlantic University's College of Education undergraduate students (sitting, from left) Emmie Eimann, Jaquana Anderson, Savannah Krevitz, Karol S. Robertson, Crystal Roye (standing, from left) Janelle Freire, Cassandra Salazar, Aimee Pope, Jenna Tate, Courtney Pritchard, Asmaa Saad and Megan Jones. Not pictured is Gianna Denofrio.

(Photograph by Natalie West)

By Josephine Elliott | JULY 31, 2018

Best-selling author, James Patterson, generously funds yearly scholarships for Florida Atlantic University (FAU)'s College of Education (COE) students. The purpose is to form a learning community among scholarship recipients that will supplement their regular program of study and provide additional training to support them as developing teachers with emphasis on reading and writing education. During her first year as sole faculty advisor for the James Patterson Teacher Education Scholarship, Bessie P. Dernikos, Ed.D., not only facilitated monthly guided discussions on literacy-related topics, but also established a collaborative partnership with A.D. Henderson University School (ADHUS), FAU's lab school.

***“Our partnership with the A.D. Henderson University School truly emphasizes the idea of ‘knowledge in practice.’ Patterson Scholars are giving back to the community but learning with the community as well.”***

***–Bessie P. Dernikos, Ed.D.***

***Assistant Professor,  
Teaching and Learning***

As undergraduate students, Patterson Scholars have taken literary courses such as methods and literature courses, bringing “a breadth of knowledge to each and every meeting,” noted Dernikos, Assistant Professor in the Department of Teaching and Learning, who believes “in a constructivist approach to literacy learning.” This approach allows Dernikos and the Patterson Scholars to learn and inspire each other.

Dernikos views “the learning community as a collaborative space where Patterson Scholars are free to explore literacy-related topics more deeply, as well as share their ideas regarding any aspect of balanced literacy.” For example, they discussed how to conduct an effective read-aloud, while sharing read-aloud texts that scholars hope to read to their own students one day. They also discussed how access to materials may impact literacy acquisition and brainstormed ways to serve the local community.

For their service-learning project, Patterson Scholars volunteered weekly at ADHUS's after school program. This provided scholars with hands-on practice applying what they have learned in literacy courses, while supporting Henderson's elementary and middle school students with decoding, fluency and comprehension across all academic subjects, Dernikos explained. When a student was having difficulty with a math word problem, Patterson Scholars discovered that literacy includes content areas.

Patterson Scholars also discussed ways to engage students with different learning styles, as well as honor all sociocultural backgrounds, Dernikos disclosed. The teachers and students at ADHUS were appreciative and welcoming. Therefore, the experience has been mutually beneficial, helping Patterson Scholars grow as pre-service teachers. A win-win for all.

For more information on degree programs offered by the COE, contact an advisor at the [Office for Academic and Student Services](#). To explore ways to give, contact Jorene Jameson, Ph.D., Director of Development, College of Education, at [jameson2013@fau.edu](mailto:jameson2013@fau.edu).

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