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### *Rutgers Engineering Department*

Troy Shinbrot, a professor in the Department of Biomedical Engineering and former Senate Faculty Representative to the Board of Governors, is calling for increased transparency from the Board ...

*Rutgers Senate member calls  
for improvements to Board of*

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*Governors operations following latest meeting*  
Rutgers researchers have developed a machine learning model using a physics-based simulator and real-world meteorological data to better predict offshore wind power. The findings appear in the journal ...

## *Researchers Create Better Method to Predict Offshore Wind Power*

A Rutgers-led team of researchers has developed a microchip that can measure stress hormones in real time from a drop of blood. The study appears in the journal Science Advances. Cortisol and other ...

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## *New Microchip Sensor Measures Stress Hormones in Real Time From Drop of Blood*

A research team, headed by Rutgers University, has designed a new microchip that allows real-time measurement of stress hormones from just a single drop of blood.

## *Novel Microchip Sensor Measures Stress Hormones in Real-Time*

A memorial mass on Friday is scheduled to celebrate Dan Garry, 22, who graduated from Rutgers in May and was hired at Picatinny Arsenal.

## *Memorial Service Planned For*

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*22-Year-Old Long Valley*

*Resident*

It used to be Food Processing would get a call or email every week saying something like: "Everybody loves my wife's fruit salsa. How do we get it into Walmart?" It seems everybody wants to break into ...

*How These Universities Are  
Incubating the Next Big Food  
Star*

Now, researchers at Rutgers University-New Brunswick have developed ... senior author of the study and assistant professor in the school's Department of Electrical and Computer Engineering. "It's like ...

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## *Smart Wristband Can Measure Environment-Related Health and Test Blood*

an associate professor in Rutgers' Department of Electrical and Computer Engineering. The study thereby allows the patients to monitor their hormone levels for better management of conditions like ...

## *Measure Your Stress Hormone Levels Instantly by Microchip Sensor*

Ph.D., resident member of Rutgers Cancer Institute and professor and founding chief of the Division of Cancer Biology, Department of Radiation Oncology at

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Rutgers NJMS. The study's  
other senior ...

*Phage display-based gene  
delivery: A viable platform  
technology for COVID-19  
vaccine design and  
development*

A joint effort of  
RWJBarnabas Health and the  
Rutgers Cancer Institute ...  
as a place for hands-on  
experiences in science,  
math, engineering and  
technology for middle school  
groups and children ...

*2021 Top 500 Sourcebook:  
Comprehensive Care*  
He oversees project  
management, compliance,  
corporate governance,

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complex litigation and risk reduction measures for several departments, including human resources, engineering, transportation  
...

### *Lawyers on the Fast Track*

*2021: Richard J. Ramones*

Rutgers researchers have developed a machine learning model using a physics-based simulator and real-world meteorological data to better predict offshore wind power.

### *A better method to predict offshore wind power*

The researchers used the same technologies used to fabricate computer chips to



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build sensors thinner than a human hair that can detect biomolecules at low levels.

### *Microchip Sensor Measures Stress Hormones from Drop of Blood*

A Rutgers-led team of researchers has developed a microchip that can measure stress hormones in real time from a drop of blood.

### *New microchip can measure stress hormones in real time from a drop of blood*

a postdoctoral scholar in the Department of Electrical and Computer Engineering at Rutgers University-New Brunswick. With technologies like the team's new

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microchip, patients can  
monitor their ...

*New microchip sensor  
measures stress hormones  
from drop of blood*

an assistant professor in  
the Department of Civil and  
Environmental Engineering at  
Rutgers University-New  
Brunswick. "The key to  
support this growth is to  
develop reliable tools to  
assess and ...

Assesses the advantages and  
disadvantages of Employee

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Stock Ownership Plans, looks at several employee-owned companies, and argues that U.S. competitiveness depends on finding new roles for labor, management, and government

Rutgers University's Douglass Residential College is the only college for women that is nested within a major public research university in the United States. Although the number of women's colleges has

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plummeted from a high of 268 in 1960 to 38 in 2016, Douglass is flourishing as it approaches its centennial in 2018. To explore its rich history, Kayo Denda, Mary Hawkesworth, Fernanda H. Perrone examine the strategic transformation of Douglass over the past century in relation to continuing debates about women's higher education. The Douglass Century celebrates the college's longevity and diversity as distinctive accomplishments, and analyzes the contributions of Douglass administrators, alumnae, and students to its survival, while also investigating

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multiple challenges that threatened its existence. This book demonstrates how changing historical circumstances altered the possibilities for women and the content of higher education, comparing the Jazz Age, American the Great Depression, the Second World War, the post-war Civil Rights era, and the resurgence of feminism in the 1970s and 1980s. Concluding in the present day, the authors highlight the college's ongoing commitment to Mabel Smith Douglass' founding vision, "to bring about an intellectual quickening, a cultural broadening in

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connection with specific training so that women may go out into the world fitted...for leadership...in the economic, political, and intellectual life of this nation." In addition to providing a comprehensive history of the college, the book brings its subjects to life with eighty full-color images from the Special Collections and University Archives, Rutgers University Libraries.

Metabolic engineering is a rapidly evolving field that is being applied for the optimization of many

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different industrial processes. In this issue of Advances in Biochemical Engineering/Biotechnology, developments in different areas of metabolic engineering are reviewed. The contributions discuss the application of metabolic engineering in the improvement of yield and productivity - illustrated by amino acid production and the production of novel compounds - in the production of polyketides and extension of the substrate range - and in the engineering of *S. cerevisiae* for xylose metabolism, and the improvement of a complex biotransformation process.

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Substantially revised and updated, *Computer Methods for Engineering with MATLAB Applications, Second Edition* presents equations to describe engineering processes and systems. It includes computer methods for solving these equations and discusses the nature and validity of the numerical results for a variety of engineering problems. This edition now

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