

LAST YEAR



ENGINEERING

DAVID BISHOP

DIVISION HEAD OF

MATERIALS SCIENCE &

BISHOP NAMED DIRECTOR & RECIPIENT

\$20M AS ERC DIRECTOR

OF \$20M ERC GRANT A \$20 million grant from NSF established the Engineering Research Center in Cellular Metamaterials (ERC CELL-MET). As director, Bishop will spearhead production of heart tissue to ensure it offers industry and clinical functionality. **INVENTOR**

BISHOP NAMED

OF INVENTORS FELLOW Bishop holds US patents for 47 micromechanical inventions including the Lambda Router.

NATIONAL ACADEMY

SPECIAL PROGRAMS APPOINTED FACULTY 49 INCLUSION PROGRAM

PRESS COVERAGE

AFFILIATED 36 **FACULTY**

AVERAGE #

CITATIONS

TOTAL

FELLOWS

COMMITTED

\$26M

\$25M

EXPENDITURES

and Theodore Moustakas.

High demand for advanced materials in the 21st century

underscored the need for an interdisciplinary graduate

program at BU. In 2008, the Division of Materials

Science and Engineering was established under the

leadership of Professors Uday Pal, Soumendra Basu,

FUNDS

DOLLARS

RECEIVED

GRANT

MSE HISTORY

AVERAGE H-INDEX 35

8K

49 SOCIETY **MEMBERS** 55

NATIONAL ACADEMY 4 **MEMBERS** EARLY CAREER

DEGREES

35

43

AWARDED

SINCE '08

AWARDED

SINCE '11

AWARDS, 3 THIS YEAR

underrepresented minorities in the field.

The new NSF ERC and the

program to increase the

presence of women and

College established a

LAUNCH ANNUAL EVENT The inaugural Materials Science Lecture was sponsored by Schlumberger-Doll Research on the topic of Carbon

MATERIALS DAY XIN ZHANG (ME, ECE, BME, MSE) hosted the annual symposium, addressing

Integrating Metamaterials with Quantum Materials.

Based Nanosciences. It featured Dr. Hongjie Dai.

PRESS CLIPPINGS MARK GRINSTAFF (BME, CHEM, MSE) developed

a nanoparticle system to

deliver cancer medicine to a patient in one dose.

DOUGLAS HOLMES (ME, MSE) published two papers in Physical Review Letters on how soft

KAMIL EKINCI (ME, MSE) and CHUANHUA DUAN (ME, MSE) created an antibiotic susceptibility test that measures bacteria movement.

JAMES BIRD (ME, MSE)

is featured in ASEE's list

researchers and educators

of 20 high-achieving

matter behaves under

unstable conditions.



CHEN (BME, MSE)

\$115M

DIRECTOR OF THE

BIOLOGICAL DESIGN

FOR KILACHAND CENTER

CENTER (BDC) CHRISTOPHER

The BDC opened in its new home, the Rajen Kilachand Center for Integrated Life Sciences & Engineering. Chen's team recently developed a 3-D blood vessel-on-a-chip model to understand what happens to blood vessels during injury.

NSF CELL-MET ERC GRANT

MSE HEAD DAVID BISHOP

(ECE, MSE, PHYSICS, BME,

ME) See inside cover

FOR LIGHT & BRAIN RESEARCH THOMAS BIFANO (ME, BME, MSE) The NSF grant supports the exploration of brain function by use of light.

(ME, BME, MSE) The NIH grant supports the development of a localized drug delivery strategy that

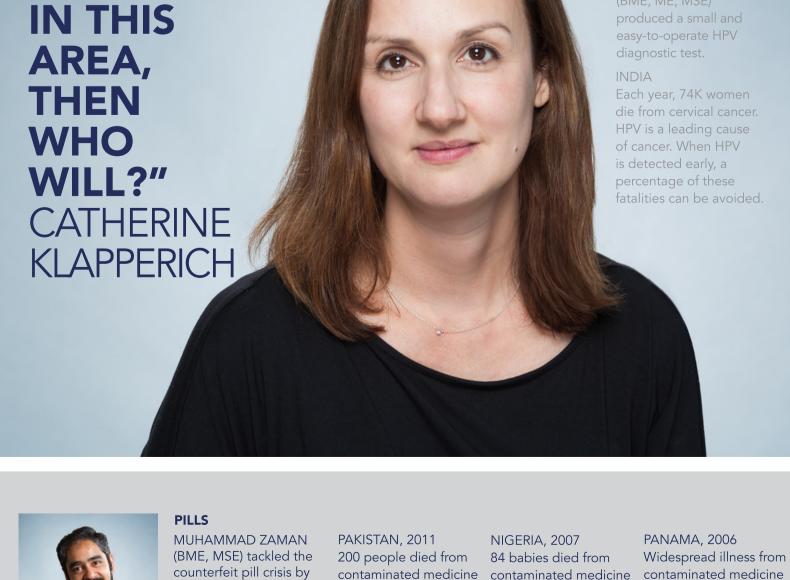
would reduce age-related blood vessel damage.

TYRONE PORTER

\$1.3M SEMICONDUCTOR MODELLING **ENRICO BELLOTTI** (ECE, MSE) The US Army grant establishes a center to develop new simulation and design methodologies for semiconductor materials and

AWARDED 83 SINCE '08







purity.

inventing PharmaChk, a device to test medicine

BOSTON UNIVERSITY

BU.EDU/MSE

Brookline, MA 02446

Biomaterials

Nanomaterials

MSE RESEARCH AREAS

Electronic & Photonic Materials Materials for Energy & Environment