Issue 62 (December 2024)

Event



270 guests, including government officials, executives, alumni, and industrial partners. The event's theme, "Engineering the Future: Igniting Open Innovation," emphasised rekindling

College of Engineering

relationships and fostering new connections. The guest of honour, Prof SUN Dong, praised the College's growth and impact on technology. President Freddy BOEY highlighted the College's influence on the establishment of new colleges and institutes and entrepreneurship. Dean Jian LU emphasised research excellence and global partnerships. Distinguished alumnus Dr Sunny CHAI stressed innovation for economic growth. Dr Hon LO Wai Kwok humorously reflected on the College's history, culminating in a commitment to engineering a better future for Hong Kong and beyond, ending the evening with a magical touch. Faculty Achievement Event Highly Cited Researchers 2024

The College of Engineering celebrated its 30th Pearl Anniversary with a gala dinner hosting

College of Engineering A group of 75 students and faculty members from the College of Engineering and the College of Science visited BIEL Crystal in Huizhou, Guangdong Province on 25 October 2024. The participants had the opportunity to learn about cutting-edge

glass manufacturing techniques and

insightful discussions on engineering

technological innovations and engaged in

career prospects.

Faculty Achievement

RICS

2024

Engineering

College of Engineering Congratulations to 17 scholars of the College who were listed as Highly Cited Researchers 2024 by Clarivate Analytics. Name Category Prof Paul CHU Cross-Field

Prof LU Yi Prof Andrey ROGACH Cross-Field

Prof TAN Chaoliang

Cross-Field Prof YIP Hin-Lap Prof ZENG Xiaocheng Cross-Field Prof ZENG Zhiyuan Cross-Field Prof ZHANG Hua Chemistry; Materials Science Prof ZHANG Qichun Cross-Field Prof ZHANG Wenjun Cross-Field Prof ZHI Chunyi Environment and Ecology; Materials Science Prof ZHU Zonglong Cross-Field

honoured as the Highly Commended Research Team of the Year of the RICS Hong Kong Awards 2024. This award

recognises the team's research in

BIM campaigns in Hong Kong by

developing an open BIM educational

methodology enhancing student digital learning. Through this innovative initiative,

the team aims to go beyond the current

positioning BIM education at the forefront

Department of Architecture and Civil

A team comprising Prof S O CHEUNG, Dr

Calvin KEUNG and Prof KIM Jung In was

of international practice. **Faculty Achievement**

Department of Electrical Engineering

scholars from Shanghai Maritime

conferred by the Power Electronics

Electronics Society.

Technical Committee of the Industrial

Prof Henry CHUNG, in collaboration with

University, Aswan University, and Aalborg

University, won the 2nd Prize Paper Award

Faculty Achievement



Department of Materials Science and

nanocrystalline materials: Multiscale

observations in Pt thin films in Science.

Prof HAN Jian and his team published a

paper titled Grain rotation mechanisms in

Engineering

Faculty Achievement



Department of Materials Science and

paper titled Advances in inverted

Prof Alex JEN and his team published a

perovskite solar cells in *Nature Photonics*,

which delves into boosting inverted PSCs by reducing non-radiative recombination.

elevating its power conversion efficiency by 26%. Tandem cells, incorporating inverted

PSCs, achieve >33% efficiency. The study

Engineering

explores strategies such as device design. perovskite formulation, and interfacial engineering for improved performance and stability. **Faculty Achievement**

in Science. They improved the stability of perovskite solar cells by using a new

Department of Materials Science and

and their team published a paper titled

Prof ZENG Xiaocheng, Prof ZHU Zonglong

Long-term stability in perovskite solar cells

through atomic layer deposition of tin oxide

Engineering

method that replaced a key layer with tin oxide. This change helped the cells maintain high-efficiency levels even after long-term use at high temperatures. The solar cells achieved over 25% efficiency and retained over 95% efficiency after 2000 hours of maximum power point operations at 65°C. Student Achievement

Department of Electrical Engineering Miss LIN Rong, under the supervision of Prof TSAI Din-ping and Prof CHEN Mu-ku, won the Student Award at the International Symposium on Imaging Sensing, and Optical Memory for her paper titled Tunable abrupt autofocusing meta-devices.

Department of Electrical Engineering

A team led by Prof Derrick JIANG and comprising Dr MO Liping, Mr MA Tianlu,

the China (Shenzhen) Innovation & Entrepreneurship Competition 2024 for

EV Charger.

and Mr WANG Yibo won the 3rd Prize in

their project called Electric Vehicle: Nextgeneration Nanocrystalline Smart Wireless



ranked among the top 5 teams in the Best 10 teams in the Best Presentation

outstanding performance led them to be

Department of Biomedical Engineering

A team comprising undergraduate students

Miss ABYLOVA Bermet, Miss ANTHONY

Valensia Nadya, and graduate Mr KHAN

International Genetically Engineered Machine (iGEM) competition. Their

Abdul Raffay secured a gold medal at the

Therapeutic Project category and the top category. The team was also honoured with the Best Education Award, a distinguished participating in the undergraduate section.

www.cityu.edu.hk/ceng/

Prof Gary FENG Engineering Prof HE Jr-Hau Materials Science Dr HUANG Zhaodong Cross-Field Prof Alex JEN Materials Science Prof LEE Chun-Sing Cross-Field Social Sciences

Chemistry;

Materials Science

Faculty Achievement

Department of Electrical Engineering A paper titled Adaptive Level-Shift Gate Driver with Indirect Gate Oxide Health

Monitoring for Suppressing Crosstalk of

PhD student Mr TANG Ho Tin, and a

the 2023 IEEE Transactions on Power

Congratulations to Prof Chung and his

Electronics Prize Paper Award.

team.

SiC MOSFETs by Prof Henry CHUNG, his

professor at HKUST secured 2nd place at



Faculty Achievement

Department of Materials Science and

Prof Johnny HO has been awarded the

one of the highest honours bestowed by

and leadership in the field of physics.

the IOP to recognise individuals who have demonstrated exceptional achievements

Fellowship of the Institute of Physics (IOP),

Engineering

Faculty Achievement

accolade presented to just one team among the 195 international teams