

2.2 School of Physical and Mathematical Sciences

Overview

Mission

Our mission is twofold: in teaching, to impart the habit and mode of thinking in science and mathematics using the most effective pedagogical methods; in research, to contribute to the scholarship of discovery, integration, application and teaching.

Vision

Our vision is to build a renowned school with strong faculty, innovative curricula, promising students, strong links with industry and supportive alumni.

The School of Physical and Mathematical Sciences (SPMS) at Nanyang Technological University has three divisions: Chemistry and Biological Chemistry, Mathematical Sciences and Physics and Applied Physics, all of which offer undergraduate and graduate programmes.

SPMS recognises that the most exciting sciences and challenging problems in the 21st century will move from the traditional disciplines to the interfaces of these disciplines. With alliances across traditional academic disciplines within and across schools, the School encourages an interdisciplinary culture and hone problem-solving and communication skills.

SPMS offers degree programmes in: Chemistry and Biological Chemistry, Mathematical Sciences, Mathematics and Economics, Physics and Applied Physics.

At SPMS, students will learn about the business of science and mathematics, as well as science and mathematics for business. We believe, together with many leaders in our society, that an education in science and mathematics, with an emphasis on analytical, quantitative and communication skills, provides a solid foundation for entry into many careers as well as for innovation and enterprise.

Chair's Office

Professors

LING San, Ph.D. (UC Berkeley), Chair, SPMS
LEUNG Pak Hing, Ph.D. (ANU), Associate Chair (Academics)

Associate Professor

SHEN Zexiang, Ph.D. (London), Associate Chair (Research and Graduate)

Division of Chemistry and Biological Chemistry (CBC)

Professors

LOH Teck Peng, Ph.D. (Harvard), Division Head
LEE Soo Ying, Ph.D. (Chicago), Dean-College of Science
LEUNG Pak Hing, Ph.D. (ANU), Associate Chair (Academics)

Nanyang Professor

NARASAKA Koichi, Ph.D. (Tokyo)

Associate Professor

ZHONG Guofu, Ph.D. (Scripps)

Assistant Professors

BATES Roderick W., Ph.D. (Imperial College, London)
CHAN Wai Hong Philip, D.Phil. (Oxford)
CHEN Hongyu, Ph.D. (Yale)

CHIBA Shunsuke Ph.D. (Tokyo)
DENG Weiqiao, Ph.D. (California Institute of Technology)
KUO Jer-Lai, Ph.D. (Ohio State)
LI Xingwei, Ph.D. (Yale)
LIU Xuewei, Ph.D. (USC)
ORNER Brendan P., Ph.D. (Yale)
TAN Howe-Siang, Ph.D. (Princeton)
WEBSTER Richard D., Ph.D. (LaTrobe)
XING Bengang, Ph.D. (Nanjing University)
YAMANE Motoki, Ph.D. (Tokyo)
YEOW Kok Lee, Edwin, Ph.D. (Melbourne)

Senior Fellows

SLOW Kok Siong, Ph.D. (McGill)
GOH Lai Yoong, Ph.D. (UCL)

Lecturers

CHUA Guan Leong, Ph.D. (National University of Singapore)
PULLARKAT Sumod A, Ph.D. (National University of Singapore)

SPMS scholar

SOO Han Sen, Ph.D. programme (UC Berkeley)

Adjunct Professors

Albert CHAN Sun-Chi, Ph.D. (Chicago, Illinois)
Jackie Yi-Ru YING, Ph.D. (Princeton University)

Adjunct Associate Professors

BOYCE Rustum Sam, Ph.D. (Columbia, USA)
CHAI Christina L.L., Ph.D. (ANU)
KANTHARAJ Ethirajulu, Ph.D. (I.I.T, Chennai)
KELLER THOMAS, Ph.D. (British Columbia)
LEONG Voon Seong, Ph.D. (Harvard University)
SELLINGER Alan, Ph.D. (University of Michigan)
SUN Eric T., Ph.D. (University of Wisconsin - Madison)
WONG Pui Kwan, Ph.D. (Iowa)

Adjunct Assistant Professor

CHEN Yu-Kai, David, Ph.D.
(University of Cambridge)

Division of Mathematical Sciences (MAS)

Professor

LING San, Ph.D. (UC Berkeley), Chair, SPMS
XING Chaoping, Ph.D. (USTC)

Associate Professors

CHEE Yeow Meng, Ph.D. (Waterloo), Division Head
ROBINS Sinai, Ph.D. (UCLA)
SCHMIDT Bernhard, Ph.D. (Augsburg)
TAI Xue-Cheng, Ph.D. (Jyvaskyla)
WANG Huaxiong, Ph.D. (Haifa, Wollongong)

Assistant Professors

CHAN Song Heng, Ph.D. (UIUC)
CHEN Xin, Ph.D. (Peking University)
CHUA Chek Beng, Ph.D. (Cornell)
FU Bo, Ph.D. (University of Hong Kong)

KOH Tieh-Yong, Ph.D. (MIT)
KRICKER Andrew, Ph.D. (Melbourne)
LI Guodong, Ph.D. (University of Hong Kong)
LIAN Heng, Ph.D. (Brown)
PANG Zhen, Ph.D. (National University of Singapore)
PASECHNIK Dmitrii V, Ph.D. (University of Western Australia)
WANG Desheng, Ph.D. (Academia Sinica)
WANG Li-Lian, Ph.D. (Shanghai)
WU Guohua, Ph.D. (Wellington)
XIANG Liming, Ph.D. (City University of Hong Kong)
ZHAO Liangyi, Ph.D. (Rutgers)

Lecturers

DUZHIN Fedor, Ph.D. (Royal Institute of Technology, Stockholm)
GUSTAVSSON Anders, Ph.D. (Umea University)
LE Hai Khoi, Ph.D. (Rostov State University)
TAN Geok Choo, Ph.D. (National University of Singapore)

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LEE Hian Kiat, Ph.D. (UCLA)
LEE Hwee Kuan, Ph.D. (Carnegie Mellon)
YEO Sze Ling, Ph.D. (National University of Singapore)

Division of Physics and Applied Physics (PAP)

Professor

HUAN Cheng Hon, Alfred, D.Phil. (Oxford), Division Head

Nanyang Associate Professor

Christos Panagopoulos

Associate Professor

SHEN Zexiang, Ph.D. (London), Associate Chair (Research and Graduate)

Assistant Professors

CHEONG Siow Ann, Ph.D. (Cornell)
CHEW Lock Yue, Ph.D. (National University of Singapore)
Elbert CHIA, Ph.D. (Illinois)
DUMKE Rainer, Ph.D. (Inst. of Quantum Optics)
KOH Tieh-Yong, Ph.D. (MIT)
KUO Jer-Lai, B.Sc. (Taiwan), Ph.D. (Ohio State)
LEW Wen Siang, Ph.D. (Cambridge)
OHL Claus-Dieter, Ph.D. (Göttingen)
PHAN Anh Tuan, Ph.D. (Ecole Polytechnique)
SUM Tze Chien, Ph.D. (National University of Singapore)
SUN Handong, Ph.D. (HKUST)
WANG Lan, Ph.D. [National University of Singapore, (Physics), University of Minnesota (Materials Science)]
WU Tao, Tom, Ph.D. (U Maryland)

Lecturers

YU Ting, Ph.D. (National University of Singapore)

Senior Tutor

LU Bing Sui, B.Sc. (Cambridge)

SPMS scholars

CHONG Yidong, Ph.D. Program (MIT)
YONG Ee Hou, Ph.D. Program (Harvard)

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SEE Kai Hung, Alex, Ph.D. (Rutgers)

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PHUA Poh Boon, Ph.D. (MIT)

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