

Academic @ffairs

N E W S L E T T E R

Message from VP-AA

Recently, we have initiated weekly luncheons with faculty members. Professors Peter Dobson and Nelson Cue joined me in inviting each time about 10 faculty members from different departments to get together and chat on whatever subjects that came to mind. The atmosphere was informal, with no fixed agenda. The purpose of such gatherings is simply to provide an opportunity to get acquainted, not only between me and the faculty but, perhaps more importantly, among the faculty members themselves.

While the conversations were spontaneous and covered a diverse range of topics, two subjects of common interest to everyone were often brought up, discussed and even debated. One concerned the balance of efforts spent on fundamental or applied research or even technology development in a university. The other related to the student evaluation of teaching performance and its fairness in rating tough versus easy teachers. Both subjects are not new, but they may call for discussion and clarification from time to time. I will take this opportunity to briefly express my view on these two subjects.

To begin with, universities are in the business of knowledge: to generate knowledge by research and to share knowledge by teaching. For research, instead of talking about fundamental or applied research where the demarcation line has never been drawn clearly, I would rather say that we pursue knowledge in all areas, including both fundamental and applied areas. At our university, while we will continue to do our best to provide adequate resources for research in the fundamental area, the growth of research in the applied area will be faster as a result of greater funding support from government as well as industry. As for

technologies, we at universities generate new knowledge and new possibilities for technologies. Universities do not develop technologies per se, but pursue collaborations with industry and business for the advancement of technological innovations.

The question of teaching evaluations has been a constant concern and even a source of anxiety among many faculty members. The common belief is that demanding teachers who set high standards are not liked, and hence receive low scores from their students; the corollary is that easy-going teachers become popular. Such correlations, however, have not been borne out from careful studies. Conversations with many of our teaching award winners in various schools also reveal that good teachers are not necessarily undemanding teachers, but rather those who are serious about teaching, well-prepared for lectures and, above all, knowing and caring for their students. To further alleviate some of the concerns, I want to make it clear that student evaluation is not the only parameter in gauging teaching performance. For cases in which teaching becomes the critical consideration in determining promotion, substantiation or contract renewal, for example, we usually seek additional input from the department, including comments from colleagues if appropriate. Being fully aware of the serious consequences of the evaluation process, we do our utmost to make it thorough and fair.

Leroy L Chang
Vice-President for Academic Affairs

RGC Competitive Earmarked Grants (1999-2000)

Congratulations to all – we achieved the highest success rate among the institutions in bidding for the RGC earmarked grant for research, 1999-2000. Of the 242 proposals we submitted, 138 (57%) received funding, amounting to a total of 76.6 million. Details of individual projects are found on the web version of this *Academic@ffairs* Newsletter (September 1999 issue) at <http://www.ust.hk/~webaa>.

Let's keep up with the good work in the 2000-2001 bidding. Faculty are encouraged to approach Virginia, Technical Writer of OCGA at extension 6180 for improving the style and presentation of the proposals. You will find Virginia helpful.

	Application No.	Supported	
	-----	No.	Amt.(\$M)
	-----	-----	-----
SCIE	78	44	29.3
ENGG	124	72	36.2
SB&M	37	21	10.5
H&SS	1	1	0.6
R & D	2	0	0
Total	242	138	76.6

New acronyms: *ITSC, PTC & CELT*

On 31 July, the AAO announced the completion of a restructuring exercise that replaces two of our founding academic support units with three new service centers. This means, among other things, that the old familiar names of CCST (Center of Computing Services & Telecommunications) and ETC (Educational Technology Center) would disappear, and we need to get used to a new set of acronyms: ITSC, PTC and CELT.

All three of the new units include components that were part of the original ETC. The reorganization has also spanned branch lines, as several staff from the Creative Services Section of the Office of University Development and Public Affairs (OUDPA) have been transferred to CELT.

A goal for all of these units is to have a clear and transparent statement of services and priorities, so that users will know what is available to them and — when charges are deemed appropriate — what it will cost. The basic outline for this has been developed during the reorganization, and details will be worked out in consultation with users and with the approval of the Deans and Vice-President.

CCST + ETC's Classroom Support Team



Information Technology Services Center (ITSC) www.ust.hk/itsc

*computing and telecommunications, and
a one-stop shop for support of classroom equipment*

ETC's Instructional Development Unit (IDU)
+ staff from OUDPA's Creative Services Section



Center for Enhanced Learning & Teaching (CELT) www.ust.hk/celt

*proactive development & promotion of new teaching technologies,
continual assistance to faculty,
increasing students' learning opportunities in business community,
providing access to the latest teaching tools, and
coordinating grants aimed at improving secondary education*

ETC's Graphics Unit and AV Production Team



Publishing Technology Center (PTC) www.ust.hk/ptc

*focusing on print, video, electronic and web publishing tasks
including those formerly done by Creative Services Section of OUDPA*

Opportunities

Innovation & Technology Fund (ITF)

The Government will inject \$5 billion to support:

1. innovation & technology support activities
 2. university-industry collaboration activities
 3. support activities
 4. small entrepreneur research assistance programs
- Application details will be announced in October.

Quality Education Fund (QEF)

So far 1,140 projects, amounting to \$584 million, were approved. OCGA will keep you posted of details on the next call for applications in November.

PG Conference/Seminar Grant

RGC has set aside half-a-million annually to support:

1. inter-institutional and inter-disciplinary contacts among PG students,
2. Interaction of PG students with eminent scholars from outside Hong Kong, and
3. inter-institutional conferences/seminars targeted at and organized by or for PG students.

Applications are now accepted all year round.

Research Travel Grant (RTG)

There are still 3 rounds of RTG applications for conferences held in 1999-2000. Application deadlines: 1 Dec, 1 Mar & 1 Jun.

Details of the above schemes, and other research opportunities, are found at the OCGA home page - <http://www.ust.hk/cgi-bin/cgiwrap/~webocga/ResearchOpp.pl>

QEF projects mobilize university resources to integrate IT into school classrooms

The program idea was first initiated by a group of engineering students. A similar idea also sparked off among the Science faculty. The efforts turned out to be two meaningful QEF projects — Education Development Program (SCIE) and Teachers Learning Program (ENGG), which worked hand-in-hand and accomplished a lot:

- a dozen hands-on IT related workshops,
- free hands-on training for over 5000 teachers, run by trained student-instructors,
- Science Summer Schools for 6 formers and Popular Science Topics for teachers,
- compiled on-line subject-based teaching & learning resources and CD-ROMs distributed free to schools,
- Teacher-in-Residence program, and
- Professor-in-Residence program.

We are now working with a professional instructional designer to re-design some of the workshops to reflect the training needs of teachers.

Catherine Lau (MATH-year 3) remarked that she was the real “beneficiary” of the project. “It provided a golden opportunity to learn how to design, develop, administer and implement a course/program under close supervision and guidance. I really feel good to be an instructor. That’s confidence building and helps in my future career.”

AA Medal 1999

The HKUST Academic Achievement Medal is awarded annually to graduates with outstanding academic achievements. Out of the 1,751 Spring 1998-99 graduates, twenty-two were selected to receive the Medal for 1999. The Medal will be presented at the Congregation this November.

H&SS Dean's Award

– revised criteria

The H&SS Dean's Award recognizes students' outstanding academic performance in the minor program offered by the School of Humanities and Social Science. To ensure a high standard of this prestigious award, it is required that all H&SS courses counting toward the calculation of cumulative grade average (CGA) must be taken at UST.

Accomplishments required of recipients

(effective 1999-2000)

- a) Completion of the requirements for graduation, including all requirements for the minor program; and
- b) Achievement of a CGA of 10.0 or above in all courses presented in completion of the requirements of the minor program; and all of these courses must be taken at HKUST.

Minor in Mathematics

Starting this Fall, undergraduates who are not studying BSc in Mathematics and have a CGA of 4.5 (C) or above may consider enrolling in the Minor Program in Mathematics. The minor program requires a minimum total of 18 credits taken from mathematics courses at 100-level or above. These credits must include a minimum of 4 credits each at 200-plus-level and 300-plus-level.

To graduate with a minor in Mathematics, one must first enrol in the minor program – to be done no later than the first semester of the final year of study and no earlier than the first semester of the second year. He/She must have completed all requirements of the minor and major programs of study, and have attained an average of at least 3.5 (C-) in courses taken within the minor program.

Length for PhD Study

Until now, the normative length for PhD study has been three years, regardless of whether the student is in possession of a Bachelor's or a Master's degree. Beginning the 1998-2001 triennium, as advised by UGC in early August, PhD students who do not have a research Master's degree may be funded up to four years, subject to the overall research PG target numbers not being exceeded. For those who are in possession of a research Master's degree, the normative length of PhD study remains unchanged at three years.

UG intakes, Fall 1999

The 1,859 places for 1999-2000 admission were successfully filled through the JUPAS and direct entry routes. We continue to see improvement in terms of both the number and quality of applicants applying to our programs. Particularly noticeable are basic science and IT-related programs. This perhaps reflects the community's response to the Chief Executive's call to promote IT, hi-tech developments and education. We would be getting a quality cohort who are geared to earn a brighter future for themselves and for the Hong Kong as a whole. It is also encouraging to note that all those admitted met the language requirement, both English and Chinese.

TOEFL on computer

Departments may assess applicants' English proficiency by looking at the TOEFL test score. A computer-based TOEFL test was introduced in July 1998 in many parts of the world. It combines many of the same question types as the conventional paper-based test with new question types that can be offered only on the computer. We must be mindful of the difference in the range of test scores:

Computer-based test score	40 – 300
Conventional test score	310 – 677

Physics Summer School

In early July, the Physics Department organized a new Summer School to stimulate Form 6 students' interest in science in general and physics in particular. It attracted a total of 750 interested high school students from 148 schools. This well demonstrates that students are still interested in fundamental science. Yet, owing to limited places, only 45 top students in Hong Kong were selected. Exclusively arranged for these selected participants were 5 days of fully lined up lectures on different interesting topics. To allow more students to experience university lectures at UST, four of the lectures were also open to the public.

Most participants left the camp with excitement and gratitude for the learning and the experience. One said, "E=mc², that frustrates me, that interests me." To collect participants' feedback on the Summer School, the PRS system was used. This taste of the latest learning tool is probably another landmark experience for these future university students.

Input Wanted

For sure there are many more achievements and creative activities worth reporting in this newsletter. Please email aao@ust.hk or call Betty Law at the extension 6132.

Achievement Highlights

- A Cyberschool of Information Technology was established last month opening a new chapter on on-line delivery of education.
- At the young age of less than 10, our SB&M is one of the first business schools outside US which has been accredited for all its business and accounting programs by AACSB – The International Association for Management Education.
- Our engineering students own three awards at the HK Institute of Engineers Final Year project competition this July, including the Overall Best Award:

Overall Best Award – “Development of New Advanced Instrument & Equipment for Disk Drive Industry” – Lau Wing Lung, Jimmy, Tong Hok Sum & Yeung Chi On, Andy supervised by Dr Neville Lee & Dr Kelvin Ng

Best Industrial Application Award – “Feasibility Study of Productivity Improvement on MTR Maintenance Workshop” – Chang Yick Chueng, Edmond & Chan Muk Tai, Dicky supervised by Dr Richard So & Dr Yat-Wah Wan

Merit Award (Application) – “Smart Work Station” – Choi Ming Fung, Lau Chi Kwong & Wong Kwok Hung supervised by Dr Ravi Goonetilleke & Dr Richard So

- Eric Chi-Wai Yung, a PG student in ELEC, won the Best Paper award in Student Paper Contest of the 1999 IEEE International Symposium on Circuits and Systems.
- Franklin Jian Gao (MBA), who won the First Prize among the economics entries in the Nation-wide Essay Competition, earned the University Library a cash award, in addition to his personal award.
- Mr Mervyn Cheung Man-ping, Administrator of H&SS, was awarded the Chief Executive’s Commendation for Community Service.

On the Light Side

by Peter Dobson

Road Rage

I have been driving now in Hong Kong since just before the campus first opened for business. In other words, I have been on (the left side of) the road since Spring 1991. For a few months, until the staff quarters were ready for occupation, I commuted to campus from our flat on the Hong Kong side. However, I was too busy trying to remember which lever operated the windscreen wipers, and which the turn signals, to pay much attention to the other drivers on the road. I did learn early on, however, that the main (perhaps sole) purpose for the horn on an automobile is to celebrate the arrival of the green traffic light. That’s why they give you advance notice with a red and yellow signal—heaven forbid that you should actually not already be in motion when the light turns green!

As I mentioned in a recent column, not long ago we moved back to the Hong Kong side into a flat purchased under the HFS program. So, for the past six months, I have again been commuting to and from the campus. I am a much more experienced driver now — although I still haven’t figured out which lever operates what — so I have more time to spend observing the behavior of the other vehicles around me. I have come to the conclusion that a lot of people driving in Hong Kong are either very angry, very crazy, or both. It can’t just be that these people are in a hurry. Given the traffic and road conditions in Hong Kong, especially during commuting hours, you can really only drive fast for the short distance it takes to catch up with the car in front of you. Of course, at that point, you can follow that car at a distance of about 1mm and thus arrive at your destination a fraction of a second earlier. This seems to be what the majority of these budding road racers like to do, no doubt thinking it will make the rest of us wimps wonder if that’s Mario Andretti behind the wheel. Actually we’re all pretty convinced the person behind that wheel is a complete idiot.

To prove my point that the speed freaks are not really in a hurry to get anywhere, consider the following typical scenario. The little guy with the big self-image in the Porsche behind me pulls out of line, roars through a couple of gear changes, and manages to bully his way back into our lane a couple of car lengths further along. A few minutes later, I serenely cruise by him in the AutoToll lane while he is in line (revving his 6 liter engine) waiting to pay his toll for the tunnel. (And not even in the exact change lane.)

PRS available Campus Wide for Interactive Teaching

Never in the history of education has equipping all classrooms with a learning tool been practical until the advent of PRS(Personal Response System). Developed at UST, PRS facilitates interactive teaching and active learning by enabling all students in class to answer in private a question posed by the instructor.

The tool is very easy to use and is now available for campus wide usage. Colleagues have used the system with positive results. To use PRS for your class:

- go to the PRS website <http://phms02.ust.hk/prs>
- click on “sign up”

- provide the requested class information
- instruct students to check out their own PRS handset from the Library Circulation Counter (*Wireless handsets are loaned free to students*)
- simply run the pre-loaded PRS software program (*for classes in the 8 LT’s and 11 large classrooms*)
- use a portable integrated system of PRS plus a PC notebook (*for other classrooms*)

The PRS project people are ready to help get you started. Just e-mail them at prs@ust.hk.

Academic Personnel News

Administrative appointments

effective between 2 January and 1 July 1999

School of Science

Prof Shiu Yuen CHENG - reappointed Associate Dean of Science, concurrent with his appointment as Head and Professor of Mathematics, from 1 Jun 1999 to 31 May 2001.

Prof Nancy Yuk-Yu IP - reappointed Associate Dean of Science, concurrent with her appointment as Professor of Biology, from 15 Feb 1999 to 14 Feb 2001.

Prof Shiu Yuen CHENG - reappointed Head of Mathematics, concurrent with his appointment as Professor of Mathematics, from 1 Jul 1999 to 30 Jun 2002.

Prof Ping SHENG - appointed Head of Department of Physics, concurrent with his appointment as Professor of Physics, from 1 Mar 1999 to 28 Feb 2002.

School of Engineering

Dr Ting-Chuen PONG - appointed Associate Dean of Engineering, concurrent with his appointment as Reader of Computer Science, from 1 Jul 1999 to 30 Jun 2001.

Prof Wilson H TANG - reappointed Head of Civil Engineering, concurrent with his appointment as Professor of Civil Engineering, from 1 Jul 1999 to 30 Jun 2002.

School of Business and Management

Prof Ka-Keung C CHAN - reappointed Associate Dean of Business and Management, concurrent with his appointment as Head and Professor of Finance, from 1 Jul 1999 to 30 Jun 2000.

Prof Kar Yan TAM - appointed Associate Dean of Business and Management, concurrent with his appointment as Professor of Information and Systems Management, from 1 Mar 1999 to 28 Feb 2001.

School of Humanities and Social Science

Prof Chang-tai HUNG - appointed Associate Dean of Humanities and Social Science, concurrent with his appointment as Professor in the Division of Humanities, from 5 Jan 1999 to 31 Dec 1999.

Prof Alvin SO - appointed Associate Dean of Humanities and Social Science, concurrent with his appointment as Head and Professor in the Division of Social Science, from 5 Jan 1999 to 31 Dec 1999.

Faculty members on board

between 2 January and 1 July 1999

School of Engineering

Dr Chi-Wah KOK, Assistant Professor, ELEC
PhD University of Wisconsin, Madison

Dr Man-Hung SIU, Assistant Professor, ELEC
PhD Boston University

School of Business and Management

Dr David BODOFF, Assistant Professor, ISMT
PhD New York University

Dr Katherine R XIN, Assistant Professor, MGTO
PhD University of California, Irvine

School of Humanities and Social Science

Dr Xue-liang DING, Associate Professor, SOSC
PhD Harvard University

Visiting faculty members on board

between 2 January and 1 July 1999

(Appointments for 2 months or more are listed.)

School of Science

Prof Norman Cheong-Wing WONG, Visiting Professor, BICH
University of Calgary

Dr Kim W CHAN, Visiting Assistant Professor, BIOL
Rockefeller University

Prof Bernard Bei-Lok HU, Visiting Professor, PHYS
University of Maryland

Prof John Hilton PAGE, Visiting Professor, PHYS
University of Manitoba

Prof Michael STURGE, Visiting Professor, PHYS
Dartmouth College

School of Engineering

Dr Robert Sik-Cheung LO, Visiting Associate Professor, CIVL
University of New South Wales

Dr Kwok-Yan LAM, Visiting Associate Professor, COMP
National University of Singapore

Dr Satu Synnöve KEKKONEN-MONETA
Visiting Assistant Lecturer, COMP
Université de Paris-Sud, France

Dr Vladimir G CHIGRINOV, Visiting Associate Professor, ELEC
Shubnikov Institute of Crystallography, Moscow

Dr Michael H PERROTT, Visiting Assistant Professor, ELEC
Hewlett-Packard Laboratories, Palo Alto, California

School of Business and Management

Dr Yongmiao HONG, Visiting Associate Professor, ECON
Cornell University

Dr William W Y CHOW, Visiting Assistant Professor, ECON
Hong Kong University of Science and Technology

Prof Robert W BLANNING, Visiting Professor, ISMT
Vanderbilt University

Dr Dean H UYENO, Visiting Associate Professor, ISMT
University of British Columbia

School of Humanities and Social Science

Dr Sin-Jan CHU, Visiting Assistant Professor, HUMA
Chinese Study Center on Chinese Religion and Culture, HK

Adjunct faculty

appointed between 2 January and 1 July 1999

School of Science

Dr Raymond S C WONG, Adjunct Associate Professor, BICH
Hong Kong University of Science and Technology

Prof Kung Ching CHANG, Adjunct Professor, MATH
Peking University

Prof Shou-Jun CHEN, Adjunct Professor, MATH
Peking University

Prof C K CHU, Adjunct Professor, MATH
Columbia University

Prof William K M LAU, Adjunct Professor, MATH
NASA/Goddard Space Flight Center

Prof Hwa-Tung NIEH, Adjunct Professor, PHYS
Tsinghua University

Adjunct faculty (cont'd)

School of Engineering

Dr Liang Y LIU, Adjunct Associate Professor, CIVL
University of Illinois at Urbana-Champaign

Prof Fuqing YANG, Adjunct Professor, COMP
Peking University

Prof Han-Fu CHEN, Adjunct Professor, ELEC
Chinese Academy of Sciences

Prof Charles Kuen KAO, Adjunct Professor, ELEC
Transtech Services Limited

Prof Tzhy-Jong TARN, Adjunct Professor, ELEC
Washington University

Prof Y Y WANG, Adjunct Professor, ELEC
Peking University

Dr Joseph M SCHMITT, Adjunct Associate Professor, ELEC
Nellcor-Puritan Bennett, Pleasanton, California

Dr Sze-Fong Mark YAU, Adjunct Associate Professor, ELEC
The Government of Hong Kong Special Administrative Region

Dr Gino Tu YU, Adjunct Assistant Professor, ELEC
Hong Kong Polytechnic University

School of Business and Management

Prof Yining LI, Adjunct Professor, ECON
Peking University

Mr Paul M F CHENG, Adjunct Professor, MGTO
N M Rothschild & Sons (Hong Kong) Limited

School of Humanities and Social Science

Prof Lai CHEN, Adjunct Professor, HUMA
Peking University

Prof Shaoyu JIANG, Adjunct Professor, HUMA
Peking University

Prof Andrew G WALDER, Adjunct Professor, SOSC
Stanford University

Substantiations and promotions

effective from 1 July 1999

The following faculty members have been substantiated and promoted to the indicated ranks with effect from 1 July 1999:

School of Science

Dr Jeffrey R CHASNOV, Associate Professor(B), MATH

Dr Kwok-Yip SZETO, Associate Professor(B), PHYS

School of Engineering

Dr Chak K CHAN, Associate Professor(B), CENG

Dr Chih-Chen CHANG, Associate Professor(B), CIVL

Dr Andrew HORNER, Associate Professor(B), COMP

Dr Kamalakar KARLPALEM, Associate Professor(B), COMP

Dr Li QIU, Associate Professor(B), ELEC

Dr Shi-Wei LEE, Associate Professor(B), MECH

Dr Raymond Ka-Man CHEUNG, Associate Professor(B), IEEM

School of Business and Management

Prof Kevin C W CHEN, Professor, ACCT

Dr T J WONG, Associate Professor(A), ACCT

Dr Ki Ling CHEUNG, Associate Professor(B), ISMT

Substantiations approved

between 1 January and 30 June 1999

The following faculty members have been granted substantiation upon their successful completion of the academic review for substantiation:

School of Science

Prof Ping SHENG, Professor, PHYS

School of Engineering

Prof Yeou-Koung TUNG, Professor, CIVL

Prof Xiren CAO, Professor, ELEC

Prof Phillip C CHAN, Professor, ELEC

School of Business and Management

Dr Chuan Yang HWANG, Associate Professor(B), FINA

Dr Shu Ming NG, Associate Professor(A), ISMT

Prof Anne S TSUI, Professor, MGTO

Dr Shing Keung LAW, Associate Professor(A), MGTO

School of Humanities and Social Science

Dr Angelina Chun-Chu YEE, Associate Professor(A), HUMA

Substantiation & promotion review Fall 1999 timetable

This timetable has been announced via an email on 8 July 1999

Please note the deadline for application for substantiation and/or promotion in Fall 1999: 1 October 1999. Faculty members are advised to consult their Department Head or Dean to check their eligibility and to consider if they wish to apply for substantiation and/or promotion. Application, together with the relevant documents, shall be sent to the Department Head who will initiate the review according to the University guidelines. Please refer to Chapter 4.4 of the Faculty Handbook for details of the substantiation policy and guidelines.

Date [#]	Event
Jul 1999	Notice to faculty of the Fall review timetable
1 Oct 1999	Deadline for receiving applications for substantiation and/or promotion
1 Mar 2000	Completion of review at the Department level
1 Apr 2000	Completion of review at the School level
1 May 2000	Completion of review at the University level
1 Jun 2000	Recommendation/decision by VP-AA or the President as appropriate
Jun 2000	Submission to the Standing Committee of Council for approval on professorial substantiation cases
Around end of Jun 2000	Inform faculty outcomes of the review
1 Jul 2000	Effective date of substantiation and/or promotion, as appropriate, if approved

[#] The date above is an indication of the expected completion time of the corresponding event. Slight variations may occur but the whole process for a Fall review shall be completed around the end of June each year.

Projects supported by RGC Grants, 1999-2000

BIOCHEMISTRY

- Dynamics Of The Permeabilization Of Custom Antibacterial Peptides On Lipid Bilayers — CHEN, Hueih-min — \$918,500
- Mechanism And Cell Cycle Control Of DNA Replication In The Budding Yeast *Saccharomyces Cerevisiae* — LIANG, Chun — \$1,099,840
- Functional Characterization Of Prohibitin In Cell Cycle Control And Senescence — POON, Randy Y C — \$709,500
- Archaeobacterial Tryptophanyl-tRNA Synthetase: Properties And tRNA^{Trp} Recognition — XUE, Hong — \$1,414,560
- The PDZ Domain Of Neuronal Nitric Oxide Synthase: Made To Be Versatile — ZHANG, Mingjie — \$1,543,360
- Structure-function Studies Of The Cntf Receptor Complex And The Development Of NMR Techniques For Studies Of The Structure And Interactions Of Large Modular Proteins — ZHU, Guang — \$1,675,520
- Studies Of Bis-THAs, Novel Dimeric AChE Inhibitors, On Cholinesterase Activities And Spatial Memory : Comparison With E2020, Huperzine A, And THA — HAN, Yifan — \$709,500

BIOLOGY

- Identification Of The Interactive Domains In The gp130 Cytokine Family Receptors — IP, Nancy Y Y — \$1,561,700
- Development Of In Vivo Assays For Transcriptional Activation By The Ews/atf1 Oncogene — LEE, Kevin A W — \$580,000
- Functional Analysis Of The Role Of Tumor Suppressor Genes In Nasopharyngeal Carcinomas — LUNG, Maria LI — \$580,000
- Subplasmalemmal Calcium And Activation Of Store-Operated Calcium Channels — MILLER, Andrew L — \$709,500
- Larval Settlement And Metamorphosis Of Biofouling Invertebrates: Roles Of Biofilm And Chemical Cues — QIAN, Peiyuan — \$709,500
- Genetic Analysis Of Abscisic Acid Signaling In *Arabidopsis Thaliana* — ROCK, Christopher D — \$1,053,920
- Developmental, Anatomical, And Functional Characterization Of The Novel NMDA Receptor Subunit NMDAR3A — SUCHER, Nikolaus J — \$580,000
- Metal Bioaccumulation In Marine Bivalves From Hong Kong Coastal Waters — WANG,

- Construction Of Constitutively Active Mutants Of The ORL1 Receptor As Tools For Discovering Novel Analgesics — WONG, Yung Hou — \$1,403,360
- Genetic Analysis Of Cadmium Response In *Chlamydomonas Reinhardtii* — WU, Madeline C S — \$561,000
- Function Studies Of Newly Discovered Human Selenium-containing Protein — XIE, Yong — \$709,500

CHEMISTRY

- Asymmetric Synthesis Of Novel Cation- π Donor Amino Acids — CARLIER, Paul R — \$455,000
- New Approaches To Oxidation Catalysis And Biomimetic Materials — CHANG, Chris C K — \$455,000
- Mode Of Action And Synthesis Of Second Generation Qinghaosu Derivatives — HAYNES, Richard K — \$455,000
- Development Of New Methodology For Constructing Novel Macromolecular Architectures: Synthesis Of Hyperbranched Polyphenylenes Via Polycyclotrimerization Of Diynes — TANG, Benzhong — \$405,000
- Design Of Inorganic Solids Using Organic Templates — WILLIAMS, Ian D — \$455,000
- Quantum Dissipation In Nonadiabatic Chemical Dynamis — YAN, Yijing — \$573,000
- Self-Assembly And Characterization Of Layered Inorganic/Organic Nanocomposites — YANG, Shihe — \$455,000

MATHEMATICS

- Nonlinear PDES, Their Numerical Solution And Application — DU, Qiang — \$405,000
- Kinematic Geometry And Its Application To The Study Of Schrodinger's Equation Of n-body Problem — HSIANG, Wu-Yi — \$405,000
- Orbit Method For Unitary Representations And Harmonic Analysis On Symmetric Spaces — HUANG, Jing Song — \$405,000
- A Unified Coordinate System For Computing Viscous Compressible Flow — HUI, Grafton W H — \$622,000
- Duality Correspondences And Applications — LI, Jian-shu — \$573,000
- Moduli Spaces Of Stable Sheaves, S-duality Conjectures Of Vafa-witten And Vertex Algebras — LI, Wei Ping — \$405,000
- Schwarz Methods For Nonlinear Partial Differential Equations — LUI, Shiu Hong — \$405,000
- Mathematical Investigations Of Ultra-intense Laser Beam Propagation — WANG, Xiao Ping — \$623,000
- Further Research On p-adic Analysis — YANG, Chung Chun — \$405,000

PHYSICS

- Optical Properties Of Self-assembled Photonic Band Gap Systems Consisting Of Multiply-coated Particles — CHAN, Che Ting — \$603,000
- Numerical Studies Of Finite Temperature Properties Of High Temperature Superconductors — LEUNG, Pak Wo — \$573,000
- Hydrogen Diffusion On Stepped Pt(111) Surfaces — LOY, Michael M T — \$405,000
- II-VI Alloy Based Tunable UV Photodetectors — SOU, lam Keong — \$435,000
- Fabrication And Characterization Of Mono-dispersed Single-wall Carbon Nanotubes In Channels Of Micro-porous Crystals — TANG, Zikang — \$405,000
- Electronic Transport In Disordered Two-dimensional Electron Systems — WANG, Xiangrong — \$300,000
- Investigations Of Silicon Nitride On Silicon: Film Growth, Surface And Interface Structures, And Overlayer Deposition — WANG, Xuesen — \$300,000
- Multistage Dynamics In Spin Models And Applications To Information Processing — WONG, Michael K Y — \$573,000
- Investigation Of Mechanisms For The Giant Hall Effect — ZHANG, Xixiang — \$673,000
- The Study Of Ternary Photonic Band Gap Materials With A Metallic Component — ZHANG, Zhaoqing — \$405,000

CHEMICAL ENGINEERING

- The Acidity And Gas-particle Interactions Of PM_{2.5} Aerosols In HK — CHAN, Chak Keung — \$455,000
- Separation Properties Of Engineered Zeolite Membranes — YEUNG, King Lun — \$485,000
- Site Modeling, Simulation, Optimization, Targeting And Management — HUI, Chi Wai — \$405,000
- Solution, Diffusion, Relaxation, Plasticization, And Thermal Transitions Of Glassy Polymers Under High Pressure Gases As Studied By Pressure DSC, Computer Simulations, And Modeling — MI, Yongli — \$405,000
- Flow-Induced Texture Changes And Phase Behaviours Within Model TLCPs — GAO, Ping — \$300,000

CIVIL ENGINEERING

- Dynamic Intersection Control For Over-saturated Traffic — LO, Hong Kam — \$405,000
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