Overseas Internship Scheme (OIS) 2023

20 DECEMBER VIA ZOOM
MAIDIE LO
COLLEGE OF ENGINEERING
• 3 CREDIT UNIT ELECTIVE COURSE
• SUMMER TERM
• 10-12 WEEKS BETWEEN LAST MONDAY OF MAY TO MID-AUGUST
• EXACT PERIOD AS CONFIRMED BY HOST SUPERVISOR
Overseas Internship Scheme (OIS)

- FS4005 Overseas Internship Scheme (3 CUs)

EXCEPT

EE
EE4097 (L04-OIS) OR FS4005

ACE
(CEG/SURV)
CA3508 OR FS4005

DO NOT exceed maximum load limit!!
144 CUs maximum
What to Learn?

- Relevant to major study
- Research-based internship
- Surveying students: industry-based
- Emphasize self-learning
- Joint-supervision: Host + CityU
WHY OIS

Research Work experience

Technical know-hows

MPhil possibilities

Career Path

Referees

Your CV

Publications
Department of Mechanical Engineering

Matthew CHUI under the supervision of Dr Janet WONG of the Imperial College London has contributed to a paper as the second author during his overseas internship at Imperial College. The paper, entitled Interactions between Organic Friction Modifier Additives, has been accepted for publication by Tribology International.
Interactions between organic friction modifier additive\s

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ARTICLE INFO

Keywords:
Boundary lubrication
Additives
Friction

ABSTRACT

The interactions of different additives in engine oils can create synergistic or antagonistic effects. This paper studies how mixing different organic friction modifier additives affects friction reducing properties of lubricants in the boundary lubrication regime. Amines of different degree of saturation were mixed with either glycerol monooleate (GMO) or oleic acid in hexadecane. The model lubricants thus formed were characterised with Fourier-transform infrared spectroscopy. Friction tests in reciprocating motion using ball-on-disc steel-steel contacts were conducted to examine the tribological performance of these lubricants. Worn surfaces were examined using X-ray photoelectron spectroscopy. Oleic acid and oleylamine, a primary amine, were found to form a partial ionic liquid, providing synergistic friction reduction. This positive interaction reduces with increasing degree of saturation of the amine. No synergistic effect was observed between GMO and oleylamine, suggesting that GMO does not hydrolyse into a carboxylic acid within a rubbing contact in the presence of amine.
STUDENT ACHIEVEMENTS
OIS 2021 (ONLINE)

In-Situ Synchrotron SAXS and WAXS Investigation on the Deformation of Single and Coaxial Electrospun P(VDF-TrFE)-Based Nanofibers

by Yi-Jen Huang 1,†, Yi-Fan Chen 2,*, Po-Han Hsiao 3, Tu-Ngoc Lam 3,4,*, Wen-Ching Ko 5, Mao-Yuan Luo 3, Wei-Tsung Chuang 6, Chun-Jen Su 6, Jen-Hao Chang 1, Chie-Fan Chung 7 and E-Wen Huang 3

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Academic Editors: Vijay Kumar Thakur and Ayae Sugawara-Narutaki
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- **Open Access** — free for readers, with article processing charges (APC) paid by authors or their institutions.

- **High Visibility**: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPplus / SciFinder, and many other databases.

- **Journal Rank**: JCR - Q1 (Biochemistry & Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

- **Rapid Publication**: manuscripts are peer-reviewed and a first decision provided to authors approximately 14.3 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2021).

- **Recognition of Reviewers**: reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.

- **Testimonials**: See what our authors say about the IJMS.

- **Companion journals for IJMS include**: Biophysica, Obesities, Stresses and Lymphatics.

**Impact Factor**: 5.924 (2020) ; 5-Year Impact Factor: 6.132 (2020)
Obtaining the maximum static friction coefficient of the given materials

“I accumulated a lot of knowledge, being clear about my career direction and know what I am going to pursue.”
Use Ross5D (an integrated measuring software invented by RLB)

“Internship in Auckland is a precious experience to build up fundamental knowledge of being a professional quantity surveyor. On-site visit enables me to understand the real process of building up concrete columns and grouting which is very useful and practical.”
to design a combined network with both 2D convolutional layers and 3D convolutional layers.

“I like the experience I got from the OIS. I enjoyed every day I spent in the U.S. By doing research, I know more about advanced technology and cutting-edge subjects. I have a glimpse of how graduate schools are, and be determined to pursue a master degree in US.”
One of the memorable moments during team-building activities is paddling the canoe on the lake. This water sport provides an all-over workout, as it builds endurance, muscle strength, and cardiovascular fitness. I learned the value of collaboration and persistence as well.
• PENULTIMATE YEAR STUDENTS.
• CGPA AT OR ABOVE 2.50
• PREFERABLE 2.7 OR ABOVE
• IELTS OVERALL SCORE $\geq 6.5$ IS REQUIRED FOR SOME UK AND USA POSITIONS. MAY NEED TO TAKE THE IELTS IF REQUESTED BY HOST.

• STUDENT ON OUTBOUND EXCHANGE DURING SEMESTER B MAY ALSO APPLY BUT WILL HAVE TO OBSERVE THE DATES FOR THE COMPULSORY PRE-DEPARTURE WORKSHOP AND FINAL BRIEFING SCHEDULED RIGHT AFTER THE EXAMINATION PERIOD IN MAY.
FINANCIAL ISSUES

CityU subsidy
- 25K (Europe & North America)
- 22K (Australia & New Zealand)
- 16K (Asia: Japan, Singapore, S Korea)
- 11K (Asia: outside Japan, Singapore, S Korea)

When?
- Mid-May: 50% after visa is obtained
- End of Oct: 50% (full completion and obtain a Pass Grade)

Major expenses

- Airfare
- Living costs
- Accommodation
  - Food
  - Local transport

If the host provides accommodation or airfare or allowance, CityU subsidy will be significantly reduced.
EXPENSES BORNE BY STUDENTS

• VISA APPLICATION FEES;

• REGISTRATION FEES AS VISITING STUDENT;

• LABORATORY MATERIAL COSTS, IF APPLICABLE;

• INSURANCE - TO TAKE OUT TRAVEL AND MEDICAL INSURANCES POLICIES THAT WILL COVER COVID-19;

• COVID-19 DIAGNOSTIC TEST BEFORE TRAVEL AND/OR AFTER ARRIVAL;

• HOTEL QUARANTINE, IF APPLICABLE
REACHING OUT AWARD (ROA)

• HKSAR GOVERNMENT SCHOLARSHIP FUND ADMINISTERED BY THE STUDENT DEVELOPMENT SERVICES ON A COMPETITIVE BASIS

• OIS PARTICIPANTS ARE ELIGIBLE (MAINLY FOR LOCAL STUDENTS)

• WILL ANNOUNCE BY YOUR PARENT DEPARTMENT BY MARCH

• APPLICATION VIA YOUR PARENT DEPARTMENT

• CEC WILL ENDORSE YOUR PARTICIPATION IN OIS

• NOT AFFECT YOUR SUBSIDY UNDER OIS
LOCAL STUDENTS ONLY

• SET UP BY THE INNOVATION AND TECHNOLOGY COMMISSION (“ITC”)

• TO ENCOURAGE STEM STUDENTS TO GAIN INNOVATION AND TECHNOLOGY (“I&T”) -RELATED WORK EXPERIENCE AND TO FOSTER THEIR INTEREST IN PURSUING A CAREER IN I&T AFTER GRADUATION

• FULL-TIME PLACEMENTS WITH DURATION OF AT LEAST FOUR CONSECUTIVE WEEKS (28 CALENDAR DAYS);

• OFFER MEANINGFUL I&T-RELATED WORK, SUBJECT TO THE VETTING OF THE UNIVERSITIES

• HK$10,500 PER MONTH ($350/DAY)

• DETAILS TO BE ANNOUNCED BY EARLY APRIL
## Assignments

<table>
<thead>
<tr>
<th>Assignments - Compulsory</th>
<th>Time Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-attachment Training – Compulsory</td>
<td>Right after Examination Period (Exact date to be announced)</td>
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<tr>
<td>Pre-departure Briefing</td>
<td></td>
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<tr>
<td>Workshop on Internship Preparation + Cultural Awareness</td>
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<tr>
<td>Assignments - Compulsory</td>
<td>Deadline</td>
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<tr>
<td>Progress report (Template will be provided)</td>
<td>30 Jun</td>
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<tr>
<td>(&gt;600 words, by email, to CityU supervisor cc CEC)</td>
<td></td>
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<tr>
<td>Final report (Template will be provided)</td>
<td>15 Aug</td>
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<tr>
<td>(&gt;600 words, by email, to CityU supervisor cc CEC)</td>
<td></td>
</tr>
<tr>
<td>Reflective essay (&gt;800 words, by email)</td>
<td>31 Aug</td>
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<tr>
<td>- Including 10 representative photos (5 at work and 5 outside work with captions)</td>
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<tr>
<td>- A 1-minute video capturing the essence of OIS</td>
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<tr>
<td>- Summary Expenses and Tips to Future OIS Participants</td>
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</tr>
<tr>
<td>Project Presentation</td>
<td>Before you return</td>
</tr>
<tr>
<td>• To Host Supervisor</td>
<td></td>
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<tr>
<td>• To CityU supervisor – Compulsory</td>
<td>After you return</td>
</tr>
<tr>
<td></td>
<td>(Last week in August and before Sem A starts)</td>
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<tr>
<td>Debriefing - Compulsary</td>
<td>After you return</td>
</tr>
<tr>
<td>Post Internship Debriefing</td>
<td>(Late August, TBC)</td>
</tr>
</tbody>
</table>

### Graduation Requirements

- Pre-attachment Training – Compulsory
- Assignments - Compulsory
  - Progress report
  - Final report
  - Reflective essay
- Project Presentation
- Debriefing - Compulsory
1. Application

2. Submit CV & Online Grade
Display to CEC via email

• 3-17 January

• Week 5 - 6

• February / March
Acceptance & Registration

- Within 3 working days

Acceptance & Undertaking

Offer Letter from Host

Registration at Host Institution

Certification Letter from CityU
Research Project Preparation

- CEC introduce you to Host Supervisor & CityU Supervisor via email by April
- Learn about literature review
Trip Preparation

- Visa Application
- Accommodation
  - Purchase Air Ticket and Insurance
    - Only After Visa is Obtained
  - Notify Host Supervisor your arrival day
    - CEC will provide you the contact
ACTION NOW

- **IDENTITY THE PROJECT TITLES YOU ARE INTERESTED IN OIS WEBSITE:**

- **OVERSEAS INTERNSHIP SCHEME (OIS) | COLLEGE OF ENGINEERING (CITYU.EDU.HK)**

- **CHECK OUT THE PREVENTIVE MEASURES ON COVID-19**

- **CHECK OUT THE WEBSITE OF RESPECTIVE CONSULATE REGARDING THE VISA APPLICATION PROCEDURES, PROCESSING TIME, COSTS, DOCUMENTS REQUIRED, WHERE TO APPLY, ETC.**

- **PREPARE A PRESENTABLE CV FOR CONSIDERATION OF HOSTS (EMAIL TO CEC WHEN YOU SUBMIT APPLICATION)**

- **CV- YOUR KNOWLEDGE, TECHNICAL SKILLS AND HANDS-ON EXPERIENCE AND ALL THE RELEVANT EXPERIENCES & COURSES.**
ABOUT SELECTION INTERVIEW

• INTERVIEW BY DEPT: WEEK 5 - 6
  - GROUP INTERVIEW
  - FAILURE TO ATTEND WILL BE TREATED AS WITHDRAWAL
  - IF CLASHES WITH CLASS TIME, CO-OP CENTRE WILL ISSUE CERTIFICATION LETTER

• ASSESSMENT CRITERIA
  - TECHNICAL KNOWLEDGE
  - ACADEMIC PERFORMANCE
  - ATTITUDE
  - ENGLISH PROFICIENCY
ABOUT JOB MAPPING

• JOB MAPPING BASED ON:
  • PERFORMANCE AT THE INTERVIEW & ACADEMIC PERFORMANCE
  • JOB PREFERENCE

• CV & TRANSCRIPT TO HOST FOR CONSIDERATION

• EITHER ZOOM INTERVIEW OR PAPER SCREENING (INCLUDING STUDENT ON OUTBOUND EXCHANGE)

• HOST INTERVIEW: MARCH

• PREPARE WELL IN ADVANCE!
ABOUT OFFER & ACCEPTANCE

• HOST TO CONFIRM OFFER: FROM LATE FEB

• ACCEPTANCE: SIGN TO ACCEPT THE OFFER WITHIN 3 WORKING DAYS

• FAILURE TO REPLY BY THE DEADLINE WILL BE TREATED AS WITHDRAWAL

• SIGNING = COMMITMENT + CONSENT TO FS4005 REGISTRATION OR EQUIVALENT COURSE IN SUMMER TERM

• WITHDRAWAL AFTER SIGNING → COURSE REGISTRATION + FAILURE OF THE COURSE
VISA & AIR TICKET

• APPLICATION OF VISA

• CITYU AND HOST WILL PROVIDE YOU A CERTIFICATION LETTER FOR VISA APPLICATION BETWEEN MARCH TO APRIL

• TO NOTE IF ANY SPECIAL CONDITIONS DEMANDED BY YOUR HOME COUNTRY STAYING IN US OR OTHER COUNTRIES?

• A US VISA IS REQUIRED FOR TRANSIT TO CANADA

• UNLESS THE AIR TICKET FOR VISA APPLICATION IS REQUIRED, IT IS ADVISABLE TO PURCHASE IT ONLY AFTER THE VISA IS OBTAINED.

• MAY HAVE TO PAY ADDITIONAL COST FOR A RE-BOOKING

• TAKE NOTE IF THERE IS ANY IMPLICATION ON THE DEVELOPMENT OF COVID-19
FURTHER INFORMATION

• MS MAIDIE LO
  • TEL: 3442 9148
  • EMAIL: MAIDIE.LO@CITYU.EDU.HK

• MISS STEPHANIE CHAN
  • TEL: 3442 6172
  • EMAIL: CHAN.STEPHANIE@CITYU.EDU.HK

• WEBSITE: HTTPS://WWW.CITYU.EDU.HK/CENG/CO-OPERATIVE-EDUCATION-CENTRE

• ADDRESS: CO-OPERATIVE EDUCATION CENTRE B 6502, YEUNG (LIFT8)