



**Wuhan University of Technology**  
**Material Advantage Student Chapter**

*Chapter of Excellence Nomination and Annual Report*

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## Chapter Overview

### Overview

The Material Advantage Wuhan University of Technology Chapter (MA WUT Chapter) is a student organization under International School of Materials Science and Engineering of Wuhan University of Technology (WUT-ISMSE), which is a pioneering student-autonomous organization first founded in mainland China. Relying on the superiority of Wuhan University of Materials Science and Engineering discipline, focusing on the goal of building a world-class material major and cultivating top-notch innovative talents, the chapter has always been dedicated to achieving goals as follows:

*Broadening & consolidating students' basic knowledge, inspiring students' interest and creativity in materials science and engineering*

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The chapter extensively invites students to participate in various kinds of material knowledge contests and manufacture competitions to develop a competitive academic atmosphere for students. Meanwhile, the chapter also provides students with communication & presentation channels with preeminent scholars all over the world by organizing different kinds of activities.

*Broadening students' international horizons*

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The chapter provides students with lectures & reports given by the most preeminent figures from all over the world, including Nobel Prize laureates, the most distinguished professors and outstanding business elites around the globe. etc.

*Creating an atmosphere of independent innovation and cultivating students' comprehensive capabilities*

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The chapter offers a great many opportunities to students to transform their ideas into reality: laboratories are invited to free-open to students for visits and are willing to

provide experiment conditions to students(undergraduates) to their utmost extent. The chapter also highly encourages students to engage in different kinds of trainings and social practices provided by colleges and institutes worldwide. Moreover, the chapter helps as much as it is able to students grasp their opportunities to take part in MS&T and other capability-developing events.

### *Developing international cooperation & communications and improving the international reputation of the chapter*

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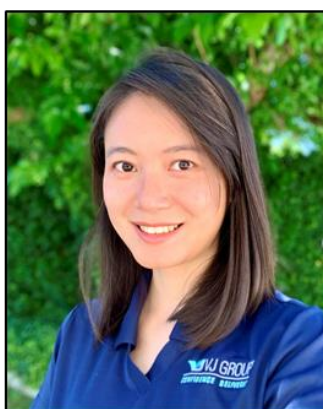
The chapter has been dedicated to build intimate communication & cooperation partnerships with excellent MA chapters all over the world. Up to now, we have developed good communications with UIUC chapter and WPI chapters. It is also well worth mentioning that chapter members achieved outstanding results last year when the chapter participated in MS&T for the first time.

In short, MA WUT Chapter is such a harmonious and progressive organization where students receive happiness from diverse activities, develop capabilities and friendships from cooperation and communications, harvest future with infinite possibilities!

### Chapter Advisors



Faculty Advisor  
Prof. Fei Chen



Industrial Advisor  
Dr. Chen Dai



Faculty Advisor  
Mr. Jinfeng Hong

## Chapter Management Committee



Chair  
Yu Liu



Vice Chair  
Jingjing Cui



Secretary  
Youlin Zhu



Social Chair  
Senwei Wu



Professional Chair  
Ruohan Yu



Outreach Chair  
Bo Liu



Personnel Chair  
Jingsai Cheng



Treasurer  
Yitian Wang



Service Chair  
Yixuan Shi



# Programming

## M-Vision International Lecture

This activity is held in the lecture hall of the west-campus library, at least once a month in average during each semester. Except for Material-Vision Lecture, there's no such place where you can meet and talk with different kinds of people who are related to the material field face to face before. Sponsored by International School of Materials Science and Engineering, our chapter started this program in 2016.

In each lecture, we will invite distinguished professors, outstanding students with international study or work experiences and experienced language teachers to share their visions about technical knowledge, college education, career development and even their interesting life stories. After the lecture, there's time left for students to talk with them more deeply. Some of the students even show those lecturers around Wuhan, the city where our university is located, as tour guides.

The M-Vision provides a platform for students to acquire the cutting-edge information of material field, and to network with potential tutors or employers before they step into career stages. The chart below shows the lectures which have been held since it started.



*Activity Schedule*

Time	Main Speaker	Topic
<b>Jun. 16<sup>th</sup> 2019</b>	David Hui (The University of New Orleans)	Education Experience in America
<b>Jul. 15<sup>th</sup> 2019</b>	Yan Wang (Worcester Polytechnic Institute)	High Energy and Low Cost Lithium Ion Batteries Enabled by Materials, Manufacturing and Recycling Innovation
<b>Au. 9<sup>th</sup> 2019</b>	Neil Cameron (Monash University)	Polymer Scaffolds for Tissue Engineering
<b>Dec. 5<sup>th</sup> 2019</b>	Shaobin Wang (The University of Adelaide)	Mn-based Nanomaterials for Environmental Application
<b>Dec. 19<sup>th</sup> 2019</b>	Jingzhong Yu (University of Chinese Academy of Sciences)	The Future of Success Starts Now
<b>Dec. 23<sup>th</sup> 2019</b>	Prof. Amany A. Mostafa (National Research Center of Egypt)	National Research Centre, Egypt. More than 60 years in Research and Development
<b>Jan. 6<sup>th</sup> 2020</b>	Ik Jin Kim (Hanseo University)	Porous Ceramics by Direct Foaming and it's Applications
<b>May. 19<sup>th</sup> 2020</b>	Chong Mao (Smooth Way Company)	How to Go from School Scientific Research to Enterprise Scientific Research

## Propaganda Posters



## Chapter Cooperation

Members who attended the MS&T19 in Oregon Convention Center, Portland, USA discussed with participants from others chapters all over the world about management mode, feature activities and propaganda strategies. By talking with representatives in different situation and background, they have learned some informative methods when dealing with members from different cultures. In addition, they also established a lasting and stable cooperative exchange relationship with PSU MA Chapter, and students from both chapters are provided with the opportunity to study and live at the other's campus.



Not only do they encouraged chapter cooperation, but also inspired members to participate in domestic or international academic conferences. Chen Tian, one of the outstanding representatives, was supported to join the 13<sup>th</sup> Pacific Rim Conference on Ceramic and Glass Technology (PACRIM13) and made a wonderful speech. As she said, it was a good chance to communicate and spread ideas with peers. The following charts lists the specific participation in the conferences.



Time	Participant	Topic
May. 2019	Zuhao Shi (2 <sup>nd</sup> International Conference on MXenes)	Design of Biomimetic MXene-base Electrocatalytic Nitrogen Fixation Materials
May. 2019	Shangbin Song (The 4 <sup>th</sup> Qingdao Energy Storage Technology Forum)	Organic-inorganic Composite Solid Electrolyte and its All-Solid-State Battery
July. 2019	Hongyuan Xing (International Conference on Transportation Infrastructure and Materials, 2019)	Aging Characteristics and Constitutive Model of Asphalt Binder
July. 2019	Shen Yu (19 <sup>th</sup> International Zeolite Conference)	Controlling the Ti incorporation and Hierarchical Structure of Titanium Silicalite-1 via Manipulating Crystallization Process
Aug. 2019	Yaomin Li (ChinaNano 2019)	The Mechanical on the Apoptosis of Glioma Cells Induced by FePt Nanoparticles
Aug. 2019	Yuzhe Chen (2019 China Biomaterials Conference & International Advanced Biomaterials Conference)	Alignment Electrospun Chitosan Nanofiber Scaffold Decorated with RGD Polypeptide for Peripheral Nerve Regeneration
Aug. 2019	Zhijie Liu (2 <sup>nd</sup> International Conference on Sustainable Building Materials (ICSBM))	Uncovering Strength Developing Regularities of Ultra-high Performance Concrete Cured Under High Temperature
Oct. 2019	Yajin Guo (International Forum on Advanced Materials 2019)	A Silk Fibroin/Oxidized Sodium Alginate Scaffold for Skin Tissue Engineering
Oct. 2019	Yihao Liu (The 20 <sup>th</sup> National Electrochemical Congress)	Design and Synthesis of Novel Hollow Carbon Ball Supported Molybdenum Carbide Nanomaterials and Hydrogen Reduction Application

<b>Oct. 2019</b>	Xuelel Pan (The 20 <sup>th</sup> National Electrochemical Congress)	Single Nanowire/Nanosheet Electrochemical Nanodevice
<b>Oct. 2019</b>	Chen Tian (13 <sup>th</sup> Pacific Rim Conference on Ceramic and Glass Technology)	Optical, Mechanical and Dielectrics Properties of CaO- Al <sub>2</sub> O <sub>3</sub> -Ta <sub>2</sub> O <sub>5</sub> Glass Fabricated by Aerodynamic Levitation
<b>Nov. 2019</b>	Bowen He (The 2 <sup>nd</sup> Chinese Symposium on Photocatalytic Materials)	In Situ Transformation of Prussian-Blue Analogue-Derived Bimetallic Carbide Nanocubes by Water Oxidation: Applications for Energy Storage and Conversion
<b>Dec. 2019</b>	Xinhui Li (International Symposium on Ferroelectric Materials and Applications in Tsinghua University)	Ultrahigh Breakdown Strength of Polymer Nanocomposites with Gradient Distribution of Ceramic Nanoparticles

## Career Development

### Attending MS&T 2019

Prof. Chen and eight students from our WUT MA Chapter went to Portland, Oregon to attend the MS&T 2019 on 29th September 2019. The vice chair, Jingjing Cui with another undergraduate student, Jingwei Wan, took part in the Mug Drop contest, and win the first place of Most Looking Mug and second place of Mug Drop contest respectively. The others participated in the Undergraduate Students Poster contest and

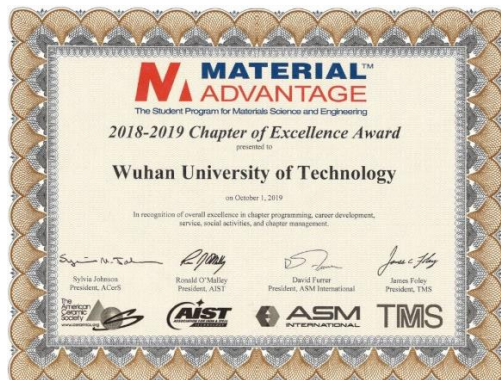


Graduate Students Poster Contest. Prof. Richard Todd from University of Oxford gave a high appraisal to chapter students.

### Being Awarded Chapter of Excellence

At the annual awards ceremony of MS&T 2019, the Wuhan University of Technology Material Advantage Student Chapter won the "Chapter of Excellence" for their extensive and comprehensive activities held over the year and the substantial

contents of our annual report. This the second time to win the award which inspires the chapter to be better. As the first chapter established in mainland China, this honor is a great encouragement for all members to do better in the following year.



## 2019 Short Study Program at Monash University

15 students from WUT together with participants from Central South University went to Melbourne, taking part in the Monash Short Study Program from 22 July to 6 August 2019. During the remarkable journey, a feast of impressive activities were greeted with them students, involving campus tour, learning Australian culture, academic class relating to various 3D printing technology as well as material testing equipment, visiting The Great Ocean and communicating with native speaker face to face by living in host-family, which not only broadened their horizons, but also sharpened their skills dramatically.



## 2019 Short Study Program at University of Wales Trinity Saint David and University of Oxford

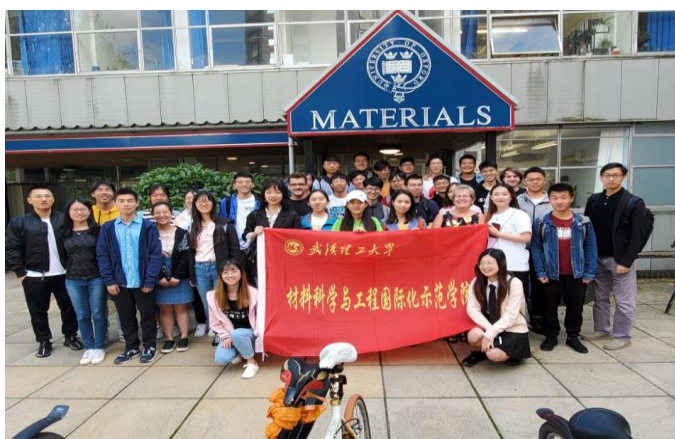
33 undergraduates including several chapter members went to UK in summer, 2019,



participating the short study program at University of Wales Trinity Saint David in Swansea and University of Oxford. During the first two weeks of our journey, they took classes relating to academic study, business running and English culture in Swansea, these practical classes, together with varieties of innovation activities such as “Battel in Swansea” promote our further study.

The secretary of the 3<sup>rd</sup> Material Advantage, Youlin Zhu also took part in the short study as a group leader and gave speech about his group’s creative thoughts on garbage classification. He was awarded Good in the study.

At the University of Oxford, they visited the Department of Materials, students personally take a hand in experiment, from which they learned about the frontier research in material science such superconducting materials.



## 2019 Short Study Program at Worcester Polytechnic Institute

During July 6th to August 5nd, 19 students including chapter members participated in the 2019 Short-Study Program held in the Worcester Polytechnic Institute (WPI). They had project-based learning (PBL), English as second language (ESL), and entrepreneurship lessons. The whole team were divided into five groups for four-week projects on some hot topics such as Energy, Education, and Life Science, etc. During the journey, they took classes about academic study, business running and risk assessment, these practical classes are practiced through the simulation of company managing.

In the spare time of the journey, members kept communicating with students of WPI through the events such





as farm experiencing, concert, museum visiting, friendly basketball match and BBQ, etc. On the weekends, they visited some cities and universities like New York city, Boston, Harvard University and Massachusetts Institute of Technology.

## M-Maestro Forum

Relying on the high-end academic exchange platform of the International School of Materials Science and Engineering, we invite educators, scientists and engineering experts with high academic attainments and international influence to conduct lectures in Wuhan University of Technology. Our purpose is to open up students' international perspectives, to grasp the forefront of international scientific research, to encourage and cultivate students' strong interest in science and engineering, to enhance students' sense of innovation, and to deepen students' understanding of professional connotation. So as to cultivate students' enthusiasm for science and technology and persevere in areas they love. From 2017 to now, our MA WUT Chapter have undertaken 20 lectures and we named it M-Maestro. The followings listed are parts of them.



No.	Time	Invited speaker	Title, affiliation
1	Jun. 14 <sup>th</sup> 2019	Xueji Zhang Member of the American Institute for Medical and Biological Engineering	From nanoprobe to nanotherapy: difficulties and challenges
2	Oct. 9 <sup>th</sup> 2019	Sir Fraser Stoddart Nobel laureate	The Growing Impact of the Mechanical Bond on Polymer and Materials Science
3	Oct. 22 <sup>th</sup> 2019	Minzhong Liu Member of Chinese Academy of Engineering	Challenges and opportunities of China's energy revolution

## Presentation under Outstanding Scholars' Guidance

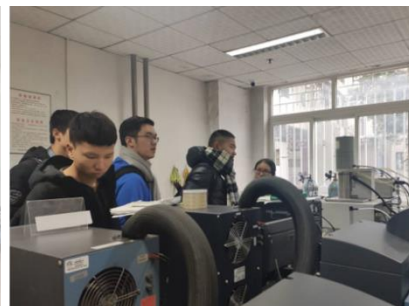
We organized special activities that provide opportunities to students from different grades to give presentations on their study, life and scientific research. Outstanding scholars have been invited to offer their guidance and give comments to the lecturers based on their presentation.



## Service

### Open Laboratories

At the end of December, MA WUT Chapter together with ISMSE organized visiting trips to more than 10 laboratories. These trips are open to all the freshmen majoring in materials.



Freshmen have little understanding of materials science research. That is a certain obstacle for them to choose a suitable laboratory. This activity aims to allow students to visit the laboratories of different research directions, so as to have a more comprehensive understanding of the research of materials. It's good for them to join the tutorial system and choose the research fields they are really interested in.

### Volunteer Training for Military World Games

The 7th CISM Military World Games was held on October 2019, in Wuhan China. The different events of the military games were held in different places. On October 22, judo competition ended in the gymnasium of Wuhan University of Technology after four days of competition, and 16 gold medals were won. Among them, the Chinese team won 5 gold medals, 2 silver medals and 2 bronze medals, making a record in the judo games. Most of the volunteers from MA WUT Chapter were involved in the service for the judo competition. They were distributed all around the stadium and engaged in front of the stage and behind the scenes for the smooth running of the whole game. Without any complaints, they were in the volunteer service of military athletes. They showed the style of students in WUT, also the style of young volunteers.





## Volunteer for the World University Forum on MSE Leadership

On the morning of October 10<sup>th</sup>, World University Forum on Materials Science & Engineering Leadership (MSE 2019), co-sponsored by WUT and Tsinghua University, opened in Wuhan International Conference Center. More than 100 scientists, experts and scholars from nearly 100 universities in the field of global materials science attended the forum.

In order to appreciate the charm of the material subject and to ensure the smooth progress of the forum, many members became volunteers of this forum.



## Volunteering on the School Sports Days

At the beginning of November, Wuhan University of Technology held the annual sports meeting. Members from MA WUT Chapter are actively involved in the volunteer service for athletes. They help athletes from warm-up before competition to the relaxation after the games. Finally, The school sports meet was successfully completed with the assistant of volunteers.



## Protection of the Sunflower Growth

From October to November, the volunteer service of protecting sunflower growth lasted for five weeks. We volunteers were not afraid of the wind and the sun, and always dedicated to protecting the growth of sunflowers. After they signed in in the morning, they put on work cards and held up warm signs. Their jobs included weeding, picking up trash, introducing sunflower fields to tourists and taking photos for them. In addition, they looked around the whole day and worked to prevent uncivilized behaviors. Luckily, the sunflowers are growing well.



## Volunteer in Optics Valley Half Marathon

Several members of MA WUT Chapter got up early on December 8<sup>th</sup> to be volunteers in Optics Valley Half Marathon. They completed tasks in their area of responsibility. Some prepared energy drinks for runners, some were responsible for keeping order and discipline at the scene. More importantly, they were always smiling and gave the warmest service to the runners. And almost all of the runners were greatly impressed by their encouragement.





## MA during COVID-19 Period

Since the epidemic outbreak, campuses are no longer available, but many teachers and students of ISMSE and MA chapter actively devoted themselves to the prevention and control of epidemic volunteer work by variety of means.

### Offline Action

*Resolutely win the epidemic prevention and control war: teachers and students of WUT ISMSE are on the move!*

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Members of chapter participated in different voluntary work in their respective communities and villages. Their work covers a wide range of volunteer work, including publicity of epidemic prevention knowledge, public order maintenance, personnel information registration and important commodity transportation, etc. Although they are scattered all over China, they are all making their own contribution to the prevention and control of the epidemic and the maintenance of people's daily life without exception.

#### *Teachers fight against COVID-19*

Through the chat group of community grid, Jinfeng Hong, the faculty advisor of MA chapter, noticed that an elderly man in the east courtyard was distressed by the lack of medicine needed for his basic illness, so he provided help for the elderly to buy medicine. Through online appointment, telephone consultation and many other ways, he finally successfully purchased nine kinds of drugs needed by the elderly in several pharmacies. Hong has been working hard to protect the health of residents during this specific period.

### *Contributing youth strength*

Faced with the epidemic, the member of the MA chapter should take an active role in the special period. A total of 24 students from the college participated in the community volunteer service. Such as Cheng Jingsai, the personnel chair of MA chapter, participated in the community epidemic prevention work, assisted the village committee in counting the out-going situation of more than 1600 villagers, joined the duty work at the main intersections of the village for helping the visitors measure their body temperature. Fang Shizhou took the initiative to participate in the community epidemic prevention volunteer activities: cleaning the community service station, making and distributing lunch for the staff, cooperating with them to check the personnel going in and out of the community. “When I see the number of new patients and related reports every day, I feel very uncomfortable. So I immediately sign up for the volunteer services when I learn that the epidemic prevention and control organization needs volunteers, then become a member of them. Up to now, I am proud for doing these little things.” Fang Shizhou said.



### *Land apart, sky shared: Medical supplies donated from overseas*

A batch of medical supplies airlifted from Australia arrived at Wuhan University of Technology and Zhongnan Hospital of Wuhan University(ZNWU), which immediately relieved the shortage of medical supplies in our school and ZNWU during the epidemic. This batch of medical supplies included 800 sets of protective clothing and 52 boxes of nasal oxygen tubes, which were donated jointly by teachers and students of the International School of Materials Science and Engineering. It took 20 days to arrive in Wuhan smoothly by united charter of Australia Eminence Chinese Business

## Association and other organization.

After the outbreak of COVID-19 in Wuhan, the teachers, students and alumni in Australia quickly organized to formulate a plan of raising supplies with the impetus from Kui Su, the teacher of ISMSE, and Prof. Hanxing Liu, the dean of our college. On the one hand, they issued a donation initiative to raise funds; on the other hand, they actively contacted the Business Council of Australia to find a way of transporting medical supplies to Wuhan, and they mobilized teachers and students to purchase medical supplies from supermarkets and shopping websites.



Under the condition of epidemic prevention supplies also in short in Australia, the school's teacher Xuewen Wang and Dr. Lianhai Zu from Monash University worked from dawn to night to purchase N95 protective masks, protective clothing and other materials for several days in a row in order to make the materials catch up with the plane back to Wuhan. They packaged the materials from Melbourne's supermarket, building material market and medical supplies warehouse to Sidney through Wanwei Logistics Central. Along with the epidemic prevention materials donated by other groups, they were transported by the direct flight from Australia to Wuhan. Due to tight international logistics and distribution, the 800 sets of protective clothing and 52 boxes of nasal oxygen tubes became the first batch of supplies in Wuhan. And other supplies such as N95 protective masks, hand sanitizer and medical gloves would arrive in Wuhan at the end of March.

The teachers and students donated more than 28,000 yuan in 3 days and the team of academician Dongyuan Zhao,





the strategic scientist, donated more than 130,000 yuan to purchase these supplies.

We aspire to the same ideal, we are all citizens of the world. Since the outbreak of COVID-19, we have given continual attention to other countries and actively purchased and donated epidemic prevention supplies to them including the United States, Australia, France and Italy, etc.



The COVID-19 epidemic has touched the hearts of many friends overseas. A number of overseas cooperation institutions, foreign embassies and consulates in China and other institutions and individuals have sent letters to Wuhan University of Technology, expressing their good wishes to the Chinese people to overcome the epidemic and their greetings and support. Chancellor of the University of Surrey, chancellor of the University of Birmingham, chancellor of Tohoku University, chancellor of the University of Lorraine in France and other academic institutions, individuals sent condolence letters, emails, phone calls and videos to express their concerns about the epidemic in Wuhan and their sincere greetings to the teachers and students of our school.



*From University of Birmingham*



*From Tohoku University*

## Online Action

### *Anti-epidemic cultural activities*

Since the outbreak of COVID-19, Material Advantage Chapter members had earnestly studied the prevention and control knowledge and implemented the prevention and control requirements of schools and colleges. In order to enrich college students' extracurricular life during the epidemic period and inspire their fighting spirit to fight the epidemic, we have organized a series of online anti-epidemic cultural activities including M-Cooking, M-Notes, M-Sports, etc.

### *M-Cooking*

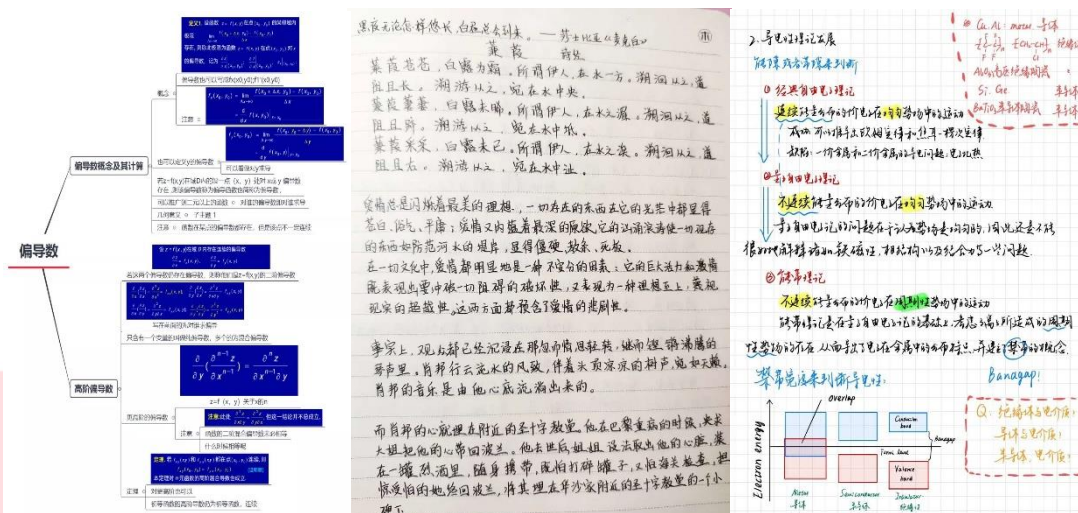
Many students enriched their cooking skills at home. In order to enrich the students' time at home, stimulate their sense of innovation and promote the concept of healthy eating, Material Advantage Chapter with the support of International School of Materials Science and Engineering college held this M-Cooking cooking contest to give students a platform to show their cooking skills.





## M-Notes

During the daily M-Notes activity, students can take photos and upload their class notes, reading notes conducive to physical and mental health development, and hand notes to record life, etc., so punch the clock out more than 14 times to complete the challenge. According to statistics, by March 21, a total of 46 students had participated in the activity, among which 2 students had completed the goal of punching in ahead of



schedule.

## M-Sports

The M-Sports daily fitness punch challenge is also popular. Good physical fitness is especially important in special periods. Moderate daily exercise can improve the body's immunity and reduce the risk of disease. Participants performed simple indoor exercises (such as push-ups, squats, and planks) and punched CARDS each day without disturbing the public. Exercise for at least 40 minutes a day for two consecutive weeks is considered a challenge. By March 25, all 20 students had kept the good habit of exercising every day.



## Homing-Plog

In the Homing Plog, students are encouraged to record their daily life through photographs and some description. We Material Advantage Chapter had contacted materials graduate students from Tsing Hua University, University of Science and Technology Beijing, Huazhong University of Science and Technology to hold this online anti-epidemic cultural activity. Sharing their experience of studying, cooking and volunteering, students have communication with other students, which makes their anti-epidemic more enriched.



## Artistic Work

We Material Advantage Chapter inspired students to express their thoughts of anti-epidemic in anyway, more than the activities we organized. There are some students devoting their emotion into painting or harmonica playing, expressing their gratitude to those medical staff who is fighting against COVID-19 in Wuhan, conveying their wishes.



## Anti-epidemic related speeches

On March 9, 2020, in order to transform the teaching advantages into a powerful



force in the fight against epidemic, the Department of Social Sciences, Ministry of Education jointly hold “The same course for epidemic prevention and control among college students in China ”. Teachers and students of our hospital learn the course of epidemic prevention and control together.

After this courses, several students give their own opinion, a freshman in ISMSE born in 2000s, Wenwen Wang, delivered a speech “ Continue to fight COVID-19, live up to the moment ” in the competition of “Lecturer: Telling about stories of fighting the epidemic”.

Wang told that Wuhan fall into peace, but she demonstrated that Wuhan became grand as so many medical staff were untied to fight the epidemic. Faced with COVID-19, lots of teenagers, born in 1990s, desperately endeavored to join the battle to fight for life with Grim Reaper.



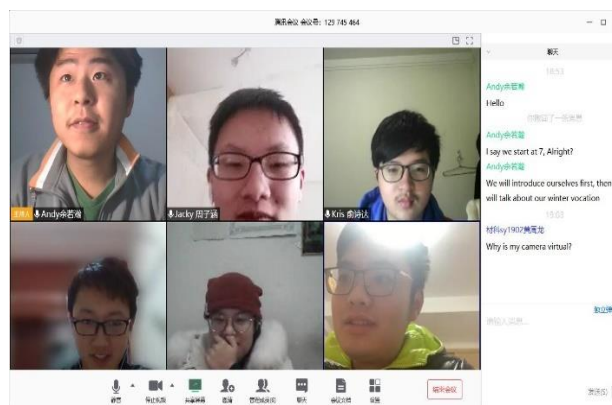
## Social Activities

### M-Club

The “English Corner”, with the official name of M-Club, aims to improve students' oral English and communication skills, enhance our interest in materials science and equip us with international horizon.

For the English corner, we always meet every Friday evening in a cafe inside the school where we can have a tea, coffee or milk and chat in English. Participants will mostly be undergraduate students, usually around 8-15 people. The topic is based on our life, study, scientific research. Foreign students and professors are sometimes invited as guests.

We have a chatting group which amounts up to around 300 people, including students from all kinds of school (mostly from ISMES and SMES), there are even a few students from other universities nearby who have heard the name of our English corner and travel a long distance to join in. So, we can see new faces almost every time then we would introduce MA to him/her. So, it not only promotes the popularity of MA but also provides reserve talents for MA's future development. The English corner has been held every Friday night 7-9 PM and has been held for 90 times so far till June. For special period such as epidemic, English corner was also held, but online instead.



## Organization and Procedures

### *General Meetings*

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Meetings were held every Saturday on a bimonthly basis. These meeting were used to inform members of upcoming events. Meeting attendance ranged between 20 and 40 members with attendance being required for meetings regarding upcoming professional conferences. Agendas and minutes were emailed out and saved to our QQ group (similar to Google Drive community) for reference and archiving.

### *Officer Meetings*

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Officer meetings were held every Thursday on a bimonthly basis to allow officers, committee chairs, and the chapter advisor to stay up to date on planning events and organizing chapter. Chapter business included finances, social events, outreach. These meetings were essential for organizing upcoming activities and to ensure the executive members were well informed.

### *Elections*

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Officer elections were held during a general meeting on September 9, 2019. The entire officer board was elected in a trickle-down style using Roberts Rules of Order. Nominated students were asked to give a short speech outlining their credentials for the position and reason for running. Any students not in attendance were asked to create a short video speech to be played during elections.

### *Communication*

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Communication amongst the Material Advantage chapter members is primarily through QQ (similar to WeChat) and e-mail, department wide e-mails and through bi-weekly meeting updates.

### *MS&T Leadership Workshop*

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Several MA officers attended the MA leadership workshop at the MS&T 2019



conference. This meeting was an opportunity for every MA Chapter to meet each other, discuss best practices, and explore new ideas. Student involvement was a major topic in this year's workshop. Topics were discussed over breakfast with the chapters, separated by position.

## Officer Duties

### *Chair*

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1. Convene and host a management committee meeting to be responsible for the overall work of the MA branch.
2. Contact the Steering Committee and the MA General Assembly to communicate the spirit of the work in a timely manner.
3. Speak and report on the work of the MA branch at the member assembly and other appropriate meetings.
4. Sign all documents on behalf of the MA branch.
5. Organize and supervise the implementation and financial status of each work of the MA branch.

### *Vice Chairs*

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1. Assist the chairman in handling the daily affairs and work of the MA branch.
2. Responsible for the full-year work plan of the MA branch and urge it to advance on time.
3. Responsible for the collection and sorting of data on various activities of the MA branch, and writing annual work reports.
4. When the chairman is absent, he will handle the matters in place of the chairman.

### *Secretary*

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1. Responsible for recruitment of members of the MA branch, establish and manage

member electronic files.

2. Responsible for the records and post-processing and publicity of the MA branch meeting.

3. Assist in the completion of the phased summary and planning of the MA branch.

4. Responsible for submitting annual reports to the United States and organizing for participation in the best Chapter of Excellence (MA) competition.

### *Professional Chair*

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1. Responsible for creating innovative cultural atmosphere and broadening horizons.

2. Responsible for the docking of MA branch members and college tutor team.

3. Responsible for planning and organizing various academic conferences, seminars, academic salons, etc.

4. Responsible for the selection and training of MA branch candidates for the international conference.

### *Social Chair*

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1. Promote and maintain the image of the MA branch at home and abroad, both at home and abroad.

2. Responsible for MA branch and all kinds of student organizations inside and outside school and all departments within the school.

3. Responsible for organizing various cultural quality activities to improve the quality of MA branch members and the social influence of the MA branch.

4. Responsible for contacting major universities at home and abroad and looking for opportunities for MA branch members to participate in related contests or academic conferences.

### *Personnel Chair*

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1. Responsible for the organization of assessment, evaluation and recommendation of new members of the MA branch.
2. Manage member file work, responsible for the change of the MA branch, member additions and deletions.
3. Responsible for the data collation, collection, and updating of members of the MA branch and members of the management committee, as well as advocacy work.
4. Matching the annual work of the best recruiting new branch competition at the MA annual meeting.

### *Outreach Chair*

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1. Responsible for MA branch's domestic and international publicity work, through presentations, road shows, pictures, etc., to demonstrate the results and style of the MA branch.
2. Responsible for pushing and propagating new media and websites of the MA branch.
3. Responsible for the design and production of promotional posters for various activities of the MA branch.
4. Responsible for informing the members of the MA branch about the latest news from the four university associations, the MA branch headquarters and other branches.

### *Service Chair*

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1. Responsible for the preparation and implementation of materials and materials organized by various activities of the MA branch.
2. Responsible for the camera, recording and finishing work organized by various events.
3. Recruitment of volunteers and voluntary services for various activities of the MA branch.

4. Assist the Secretary-General and the Minister of Propaganda in the preparation of information on events.

### *Treasurer*

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1. Responsible for the financing and management of the MA branch funds.

2. Responsible for planning, recording and summarizing the financial expenditures of the MA branch, regularly publishing details of expenditures and expenditures.

3. Responsible for collection and docking of contributions of all members of the MA branch.

4. Assist logistical support for funding and material coordination of various activities of the MA branch.

### *Documentation Storage*

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To ensure that all documents are accessible to future officers, all important chapter documents, pictures, and forms are stored on a QQ group (similar to Google Drive community) . This enables officers to create and share documents with ease among other officers and members.

### *Officer Transitions*

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A meeting was held between the outgoing and incoming officers to discuss roles and responsibilities of each of the positions. Outgoing officers were asked to outline the basic tasks that their position requires, and incoming officers were given the opportunity to ask any questions regarding the position. New ideas or suggestions were also exchanged among officers to help further grow the chapter. Additionally, incoming officers were asked to attend the last month of executive meetings to understand how meetings are run.

### *Recruitment Activities*

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The MA WUT Chapter always has an active recruitment process and encourages



undergraduates and graduates to join Material Advantage. Officers are sent every semester to talk to students in the introduction materials science classes.

## Treasury

### *MA WUT Chapter Fund*

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Most of the events students get involved in are funded and sponsored by MA WUT Chapter Fund, which is administrated by the current treasurer. The International School of Materials Science and Engineering grants funds to Chapter on an irregular basis.



## Advisor Letter

### Letter 1

May 31, 2020

To whom it may concern:

Supported by International School of Materials Science and Engineering (ISMSE) in Wuhan University of Technology (WUT), which has been authorized by “Network of International Centers for Education (NICE) Programme” in China, Material Advantage WUT Chapter, one of the chapters of MATERIAL ADVANTAGE, pursuing cultivating top-notch innovative talents, through cooperation and competition with students in Materials Science and Engineering from all over the world. Moreover, we devote to stimulating the students’ interest in Materials Science and Engineering, strengthening their sense of innovation, elevate their international vision, creating scientific and technological innovation cultural atmosphere, and increasing the global reputation for Wuhan University of Technology.

Under this vision, since the establishment of Material Advantage WUT Chapter in 2016, we are making great efforts to keep our chapter active with fast and continuous development that more and more undergraduates as well as postgraduates from both International School of Materials Science and Engineering (ISMSE) and traditional School of Materials Science and Engineering are engaged to serve our community. In the past year 2019-2020, we have got the Chapter of Excellence award, which encouraged our faculties and students significantly. We continued our success and leadership in uniting the domestic and international materials science and engineering community. We have strengthened the international collaborations with more countries out of China. More featured activities have been created under the spirit of teamwork and leadership of our faculty advisors, industrial advisor and students’ administrative team. After the outbreak of COVID-19 epidemic since January 2020, our chapter members devoted themselves to the prevention and control of epidemic volunteer work by serving the local and international community.

We will keep going and look forward to continuous featured creativities that Material Advantage WUT Chapter will bring about for the next year.

MA WUT Chapter Advisors:



Fei Chen



Jinfeng Hong



Chen Dai



## Letter 2

To whom it may concern,

I am pleased to write this letter of support in of the WUT MA chapter for the 2020 year.

In review of the year's activities, it is notable that the WUT MA chapter was incredibly active on the international front. The chapter traveled to nearly all of the continents in the world to participate in various activities, from professional conferences to a variety of short study programs at various universities. The team attended the MS&T19 conference in Portland, OR, participating in such activities like the annual mug drop competition and the graduate student poster competition. The trip was a great success, with chapter members achieving high honors in both competitions, as well as networking with other like-minded students. The several chapter members also took advantage of the short study programs at the Monash University, Worcester Polytechnic Institute, and the University of Wales. These were not only excellent opportunities for the students to continue to learn various fields within materials science from different perspectives, but also to absorb and take in the local culture. The chapter members have taken advantage of these very special opportunities to create international networks amongst prospective materials science professionals.

It would be a severe understatement to say that the chapter did not face its own set of challenges. Since Wuhan was the beginning and center of the COVID19 pandemic, the chapter needed to address a new set of unprecedented challenges. Needless to say, their conduct and spirit was unparalleled during these trying times. During the lockdown, the chapter quickly transitioned their activities to support remote interactions for students. Chapter leadership continued to inspire their cohort through these remote activities, as well as helping others adjust to the new remote learning paradigm. Additionally, the chapter members found unique opportunities to volunteer during this unprecedented time. The chapter acted as a coordination point for receipt of donated personal protective equipment from partnering universities. As Wuhan and the world look towards a post pandemic reality, the chapter stands ready to flexibly transition to assist their fellow students.



Finally, the chapter demonstrated another smooth transition of leadership. With the outgoing officers moving to graduate, the WUT MA chapter welcomed a new set of officers. It is truly a compliment to the outgoing leadership on the success of these transitions. Year after year, there is a sense of purpose to mentor the incoming leadership team. It is because of this that there is seamless continuity year after year, despite the unique scenarios that the current conditions may bring.

Overall, I continue to be amazed by the maturity that WUT's MA chapter demonstrates year after year. Even in the face of extreme conditions brought on by COVID19, their desire to better serve the overall WUT community shines above all else. Therefore, I recommend their nomination for the Chapter of Excellence award.



Chen Dai, Ph.D.

VJ Technologies Inc.

WUT MA Chapter Industrial advisor

