



## IAMG Student Chapter Annual Report

<b>Year:</b>	<b>2016.07- 2017.05</b>			
<b>Chapter:</b>	<b>IAMG Student Chapter at Sun Yat-Sen University</b>			
<b>Web-site (url): hosted by last update</b>	<a href="http://earth.sysu.edu.cn/iamg/">http://earth.sysu.edu.cn/iamg/</a>			
<b>Academic Advisor(s): 1 2</b>	Professor Yongzhang Zhou, Associate Professor Weisheng Hou, Associate Professor Zhenghai Wang, Associate Professor Gu Cheng, Dr. Xiao Fan, Dr. Guifang Zhang,	School of Earth Science & Geological Engineering School of Earth Science & Geological Engineering School of Earth Science & Geological Engineering School of Earth Science & Geological Engineering School of Earth Science & Geological Engineering School of Earth Science & Geological Engineering		
<b>President (name, email):</b>	Ms. Qiyuan Liu, Email: 499914126@qq.com			
<b>Secretary: (name, email)</b>	Mr. Xiaotong Yu Email: 634470107@qq.com			
<b>Treasurer (name, email): 1 2</b>	Mr. Pengpeng Yu , Email: 562898787@qq.com Mr. Jia Niu , Email: 287794297@qq.com			
<b>Members:</b>	<b>Name</b>	<b>Last Degree</b>	<b>Research Project</b>	<b>Department</b>
	Qiyuan Liu	Ph.D student	Environmental Geochemistry & Mathematical Modelling	School of Earth Science and Geological Engineering, SYSU



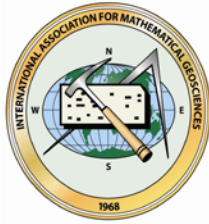
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Le Gao	Postdoctor	3D Modelling	School of data and computer science, SYSU
Xiaotong Yu	Master	Mathematics	School of Earth Science and Geological Engineering, SYSU
Pengpeng Yu	Ph.D student	Geochemistry	School of Earth Science and Geological Engineering, SYSU
Jia Niu	Ph.D student	Geochemistry	School of Earth Science and Geological Engineering, SYSU
Jingru Zhang	Ph.D student	Environmental Geochemistry	School of Earth Science and Geological Engineering, SYSU
Gnamam	Ph.D student	Environmental Geochemistry	School of Earth Science and Geological Engineering, SYSU
Liping Mo	Ph.D student	Environmental Geochemistry	School of Earth Science and Geological Engineering, SYSU
Liangrong Yuan	Master	Geochemistry of mineral	School of Earth Science and Geological Engineering, SYSU
Shuo Chen	Ph.D student	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
Yu Wang	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
Qi Zou	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
Shiyang Tao	Master	Digital Design	School of Earth Science and Geological Engineering, SYSU



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	Xuejiao Dai	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Chao Qi	Master	Geological Modeling	School of Earth Science and Geological Engineering, SYSU
	Zhipeng Liang	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Shuteng Xu	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Yan Zhang	Ph.D	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Wenchao Lv	Ph.D	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Changyu Zeng	Ph.D	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Yuzhen Liu	Ph.D student	Mathematics	School of Earth Science and Geological Engineering, SYSU
	Yupan Liu	Ph.D student	Computer & Geosciences	School of Earth Science and Geological Engineering, SYSU
	Lei Zhen	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Miaomiao Chen	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Xiaoyan Shi	Master	Geo-Information science	School of Earth Science and Geological Engineering, SYSU



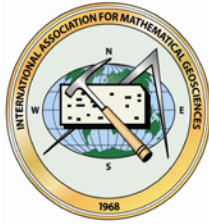
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	Hongen Zhang	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Tong Yang	Master	Geochemistry of mineral deposit	School of Earth Science and Geological Engineering, SYSU
	Lin Li	Master	Computer & Geoscience	School of Earth Science and Geological Engineering, SYSU
	Xingbang Liang	Master	Geological Engineering	School of Earth Science and Geological Engineering, SYSU
	Liang Yang	Ph.D student	Mathematical Geosciences	School of Earth Science and Geological Engineering, SYSU
	Shishan Zhou	Ph.D student	Geo-Information science	School of Earth Science and Geological Engineering, SYSU
	Qianwen Guo	Ph.D student	Geo-Information science	School of Earth Science and Geological Engineering, SYSU
	Yang Liu	Master	Geo-Information science	School of Earth Science and Geological Engineering, SYSU
	Na Xiu	Ph.D student	Geophysics	Uppsala University
	Fei Huang	Ph.D student	Geochemistry of mineral deposit	Uppsala University
<b>Scientific Activities during reporting year:</b>	<b>Date</b>	<b>Topic</b>		<b>Speaker/Occasion</b>
	Jul. 2 2016	35 <sup>th</sup> International Geological Congress		IAMG member: Jingru Zhang
	Oct.13 2016	A meeting-share feelings and experiences to join the 35 <sup>th</sup> International Geological Congress		Pro. Yongzhang Zhou IAMG member: Jingru Zhang, Le Gao



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	Oct.21-23 2016	15 <sup>th</sup> Mathematical geosciences and geological information congress of China	Qiyuan Liu & Le Gao (Changsha, China)
	Oct.28 2016	An Academic Seminar	Gnanam, Lecturer Shugong Wang
	Nov.4 2016	IAMG-SYSU academic meeting	Qiyuan Liu and Le Gao
	Apr. 8-9 2017	1 <sup>st</sup> Big Data and Mathematical Geosciences Congress of China	Guangzhou (Holder)
	Apr.27 2017	An academic report	Professor Qi Zhang
<b>Social Activities during reporting year:</b>	<b>Date</b>	<b>Topic</b>	<b>Occasion</b>
	Jun. 4 2016	Field work and investigation in Dabaoshan mine	Shaoguan city, Guandong province, China
	Sep.22 2016	Unity Cooperation and Progress	Krabi, Thailand
	Oct.21-23 2016	The 15 <sup>th</sup> Mathematical Geosciences and Geological Information Congress of China	Changsha, Hunan province, China
	Dec. 3 2016	IAMG Members' Quality Development	Conghua, Guangzhou, China
<b>Budget for reporting year:</b>	<b>Item</b>	<b>Budgeted</b>	<b>Expenditure</b>
	Seminars:	450 dollar	450 dollar
	Invited Speakers:	600 dollar	600 dollar
	Excursions:	550 dollar	550 dollar



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	Other:	400 dollar	400 dollar	
<b>Funding requested:</b>	3000 dollar			
Proposed budget:	1. Seminars: 800 dollar 2. Inviting Speakers: 800 dollar 3. Excursions: 1000 dollar 4. Other: 400 dollar			
<b>Planned activities:</b>	<ol style="list-style-type: none"> <li>1. Holding IAMG-SYSU Meeting every month.</li> <li>2. Visiting the National Supercomputer Center in Guangzhou</li> <li>3. Communicate with IAMG student chapter in China University of Geosciences, Wuhan in August 2017.</li> <li>4. Holding an academic Salon in September 2017.</li> <li>5. All the members from IAMG-SYSU take part in an outdoor activity in October 2017</li> <li>6. Field work and research in Hunan &amp; Guangdong province in October 2017</li> <li>7. Visiting a typical geological phenomenon November 2017.</li> <li>8. Field work and research in Guangxi province in December 2017.</li> <li>9. Inviting Professor Xiaogang Ma to give us a report in 2018.</li> <li>10. Field work and research in Guiyang city in March 2018.</li> <li>11. Publish some papers of Geosciences in 2017 and 2018.</li> <li>12. Others.</li> </ol>			



## **IAMG Student Chapter Annual Report**

### **2017 Annual Report of IAMG Student Chapter at Sun Yat-sen University (IAMG-SYSU)**

**(June 1, 2016- May 31, 2017)**

By Qiyuan Liu,

President of IAMG Student Chapter at SYSU

## **1. Introduction**

As a student union, IAMG-SYSU is full of energy and enthusiasm, the group now consists of post-graduates from different schools of Sun Yat-sen University and overseas. We are very glad to have a foreign member, Dr. G. Gnanachandrasamy, which makes us more international. During the last year the student chapter has done great effort in promoting mathematical geology, geo-mathematics, and geo-informatics and has made substantial progress in work.

- 1.) The number of IAMG members has increased from 16 to 34, including PhD and Master students from Sun Yat-sen University and overseas.
- 2.) Participated in some important mathematical geology, geo-mathematics and data sciences meetings and congresses.
- 3.) Customized a union T-shirt for every new member.
- 4.) Held outdoor group activities.



## IAMG Student Chapter Annual Report



IAMG-SYSU flag, plaque and badge (designed by IAMG members)



# IAMG Student Chapter Annual Report



## International Association for Mathematical Geosciences(IAMG) Students Chapter at Sun Yat-sen University(SYSU) 国际数学地球科学协会-中山大学学生分会



国际数学地球科学协会  
中山大学学生分会  
IAMG-SYSU

### IAMG Members



刘奇源 主席  
博士生导师  
President  
Qiyuan Liu, Ph.D.  
Geochemistry



方平 副主席  
硕士生导师  
Vice-President  
Fangping Yu, Ph.D.  
Prediction of mineral resources



徐晓宇 秘书长  
硕士生导师  
General Secretary  
Xiangyu Yu, Master  
Mathematics



李强 副主席  
硕士生导师  
Vice-President  
Xiangyu Yu, Ph.D.  
Mindotectonics

### Advisors



周永章教授  
Dr. Yangchang Zhou  
Geomathematics &  
Computer simulation



肖凡 讲师  
Dr. Fan Xiao  
3D modeling &  
Geochemistry



侯卫生 副教授  
Dr. Hou Weisheng,  
3D Modeling  
& Geophysics



王正海 副教授  
Dr. Wang Zhenghai,  
quantitative prediction  
of mineral resources



高磊 荣誉主席  
博士生导师(中科院)  
Honorary President  
Le Gao  
3D Modeling



成古 副教授  
Dr. Cheng Gu  
Applied Geophysics



张桂芳 讲师  
Dr. Zhang Guifang,  
Remote sense  
data processing



周永章教授在穗园获Felix Chayes奖

Secretariat	Academic Department	Organization Department	Propaganda Department	United Front Department	Foreign Ministry
 Tan Shiyang, Master Secretary quantitative estimation	 Liang Zhipeng, Master Editor Petrology	 Wang Yu, Master Editor Mathematics	 Jiang Song, Master Minister 3D Modeling	 Chen Shao, Ph.D. Minister Fabric Analysis	 Gao Le, Ph.D. Minister 3D Modeling
 Xu Shatay, Master Assistant 3D Modeling	 Yuan Liangyong, Master Officer Geochemistry	 Shi Xiaoyun, Master HR Quaternary	 Qi Chao, Master Designer Geological Mapping	 Liu Jiyuan, Ph.D. Planner Computer & Geosciences	 Xue Yu, Ph.D. Commissioner Statistics
 Zhou Shihuan, Ph.D. Honorary member Environmental Geoscience	 Liu Yichen, Ph.D. Officer Mathematics	 Liu Yichen, Ph.D. HR Geochemistry	 Ma Tingting, Ph.D. Designer Geochemistry	 Li Lin, Master Editor Computer & Geosciences	 Huang Fei, Ph.D. Commissioner Geophysics
 Zhang Jingtao, Ph.D. Photographer Geochemistry	 Liu Yang, Master Designer Mathematics	 Dai Xuejiao, Master Designer Digital Design	 Chen Minhao, Master Minister Resource	 Li Lin, Master Editor Computer & Geosciences	 Guo Qianwen, Ph.D. Commissioner Mathematics
 Zhou Shihuan, Ph.D. Minister Geochemistry	 Zhang Yun, Ph.D. Officer 3D Modeling	 Zhang Hongyan, Master HR Quaternary	 Liang Xinyang, Master Minister Geological Engineering	 Chen Minhao, Ph.D. Editor 3D Modeling	 Guo Qianwen, Ph.D. Commissioner Mathematical Geosciences



IAMG 中大学生分会 揭幕



Core members of 2016 IAMG-SYSU  
2016年IAMG中大学生分会核心团队



Academic Salon



2015-2016 Annual Report

The Presently registered members and organization chart of IAMG-SYSU



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### 2. Member activities

In addition to these successes, there were also some member activities been hold.

1.)

The 35th International Geological Congress (IGC) was held in South Africa from 27 August - 4 September 2016. IAMG-SYSU member Jingru Zhang attended the conference. During the meeting, she displayed an academic poster about her recent study: “Bioavailability of heavy metal in a regional soil-crop system—a case study in the Pearl River Delta, China”. “It was a precious opportunity for me to keep in touch with the world-class geological study. Also, it was a wonderful experience and I enjoyed it,” says Jingru. “We can expand our horizon about the study if you attend more international conferences.” IGC, undoubtedly, is an important platform for researchers and we students should be active in similar occasion.





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Jingru Zhang explains her poster to participants

2.)

Liu Qiyuan is a Ph.D student in Sun Yat-sen University, and also the general secretary of IAMG-SYSU. She studies environmental geochemistry. She was awarded by IAMG Grants committee for the Mathematical Geosciences Student Award. She conducted her field work in June, 2016.



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Picture of Liu Qiyuan (in a field work)

3.)

Some members of the International Association for Mathematical Geosciences at Sun Yat-Sen University student chapter (IAMG-SYSU) went on a field trip to Krabi-the southern part of Thailand from Sep. 20 to 24 in 2016 this semester. Krabi is famous for karst topography, including cliffs, valleys, caves etc.

They enjoyed our first day in Ao Nang beach-white sandy beach stretches to the foot of a conspicuously prominent limestone range. In the following day, they went to the Hong Islands, which is about 50 minutes longtailboat ride from Aonang. The Hong Islands are fringed with rain forest and white-sand beaches, along with rocky viewpoints and hidden lagoons. In the last days, they had a motorbike tour around the Lanta islands, the geography of which was typically mangroves and rugged trees covered hills. By the trip, they had a better understanding of cultures, geography and cuisines of Krabi. Besides, it challenged us to plan our tour in advance and collaborate with other members in a foreign country. In the end, all the participants enjoyed the exhilarating trip in Thailand.



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4.)

On Oct. 13<sup>th</sup>, 2016, the academic seminar of fall semester was held in Goldrush meeting room. The main theme focuses on two fields including mathematical geosciences and environmental geochemistry. All members of IAMG-SYSU attended this seminar.

At first, IAMG member Jingru Zhang gave an introduction of her trip in south Africa- the 35<sup>th</sup> International Geological Congress. She shared her experience with us in Cape Town and gave a presentation of the congress. She also expressed her sincere appreciation of IAMG committee to provide trip funding for her.

Dr Le Gao reported his study in the national supercomputer center in Guangzhou and introduced the theory and application of big data



All participants gave a brief talk in this seminar. After the presentation, Pro Yongzhang Zhou made detailed comments on their work. This seminar on the one hand was aim to promote the communication of others' research, on the other hand, it was aim to build the team cohesion. All members thought it was a fruitful and meaningful chance to talk with each other.



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5.)

On Oct 21 to 23, the 15th mathematical geosciences and geological information congress of China was held by Mathematical geology and geological information of China professional committee, Central South University and etc in Changsha, Hunan province. About 230 researchers from all over the China attended this congress. The members (Liu Qiyuan, Gao Le) of IAMG-SYSU took part in this meeting.

The theme of this congress was “Mathematical Geosciences – Study of Geological Information and Quantitative with Big Data”. Academician Pengda Zhao, the originator of mathematical geosciences in China gave a report on the opening ceremony. Pro. Yongzhang Zhou held the first parallel session in this conference and provided sincere suggestion to the reporters.



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6.)

The seminar for Environmental Geoscience team was held at 9:30-12:30 am on October 28, 2016 in the Goldrush Meeting Room of the Key Lab. Each member of the team attended the seminar.



The first presentation was given by Dr.G.Gnanachandrasamy, who joined the team since October. He obtained his Doctoral degree from Annamalai University, Tamil Nadu, India. His research specialized in the field of Hydrogeology, Environmental Geochemistry, Coastal Environmental Studies using Remote Sensing and Geographical Information Systems (GIS), Sedimentology. This time he reported a case study- Hydrogeochemistry in aspects of Environmental Geochemistry. It was conducted in coastal areas of Nagapattinam district of Tamil Nadu, India. The water sampling was done from 2010 each season for two years from 58 selected locations along the coast.



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The study indicates that the area is highly vulnerable to seawater intrusion. Hence it is important to monitor groundwater quality of the area more seriously to avoid further deterioration in water quality, especially by the sea water.

Dr. Shu-gong Wang, deputy director of the center, introduced his research progress in coastal wetlands.

Research assistant Tu teng reported the “Study on the index system for green and low-carbon transport of Pearl River Delta Urban Agglomeration”, participants gave some valuable suggestions upon the report.



7.)

The first member representative assembly of IAMG-SYSU in this semester was held On November 4, 2016 in Goldrush Meeting Room. 10 old members and 6new member attended the congress. General secretary Qiyuan Liu and president of IAMG-



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SYSU Le Gao co-chaired the meeting. Le Gao reported the the basic information and chapter activities organized by IAMG-SYSU. Qiyuan Liu gave a detailed report on the expenditure of IAMG-SYSU funding and made a plan for future work. Here are the main contents:

1. Distribute the second suit to IAMG-SYSU members.
2. President Le Gao introduces the development of IAMG-SYSU
3. Vice-president Pengpeng Yu reports the academic salon of IAMG-SYSU
4. General secretary Qiyuan Liu reports the expense condition of IAMG-SYSU funding.
5. Introduce of new members.

At the meeting, we elected Xiaotong Yu as new general-secretary, and previous general-secretary Qiyuan Liu as the new president. Le Gao was employed as our honor president.



The group picture of the congress



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8.)

Members (Qiyuan Liu, Shuo Chen, Le Gao, Miaomiao Chen, Jia Niu, Zhipeng Liang, Lin Li, Xia Liao, Xiaotong Yu, G.Gnanachandrasamy) of the International Association for Mathematical Geosciences at Sun Yat-Sen University student chapter (IAMG-SYSU) went to Conghua, the north-eastern part of Guangzhou and had a hot spring investigation on December 3, 2016. Conghua is famous for its hot spring which is rich in mineral substance.



They visited a natural hot spring at the foot of a mountain, and had a break in the hot spring water. They also had a hot debate on the origination of the hot spring. After that a wonderful party was held at night. Members collaborated well with each other to prepare the ingredient of BBQ together, and cooked many delicious cuisines by themselves. All members had great fun from these activities, especially our new Indian member, Gnanachandrasamy, he had a better understanding of Chinese culture and food.



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This activity has facilitated communication and promoted friendship between all members.

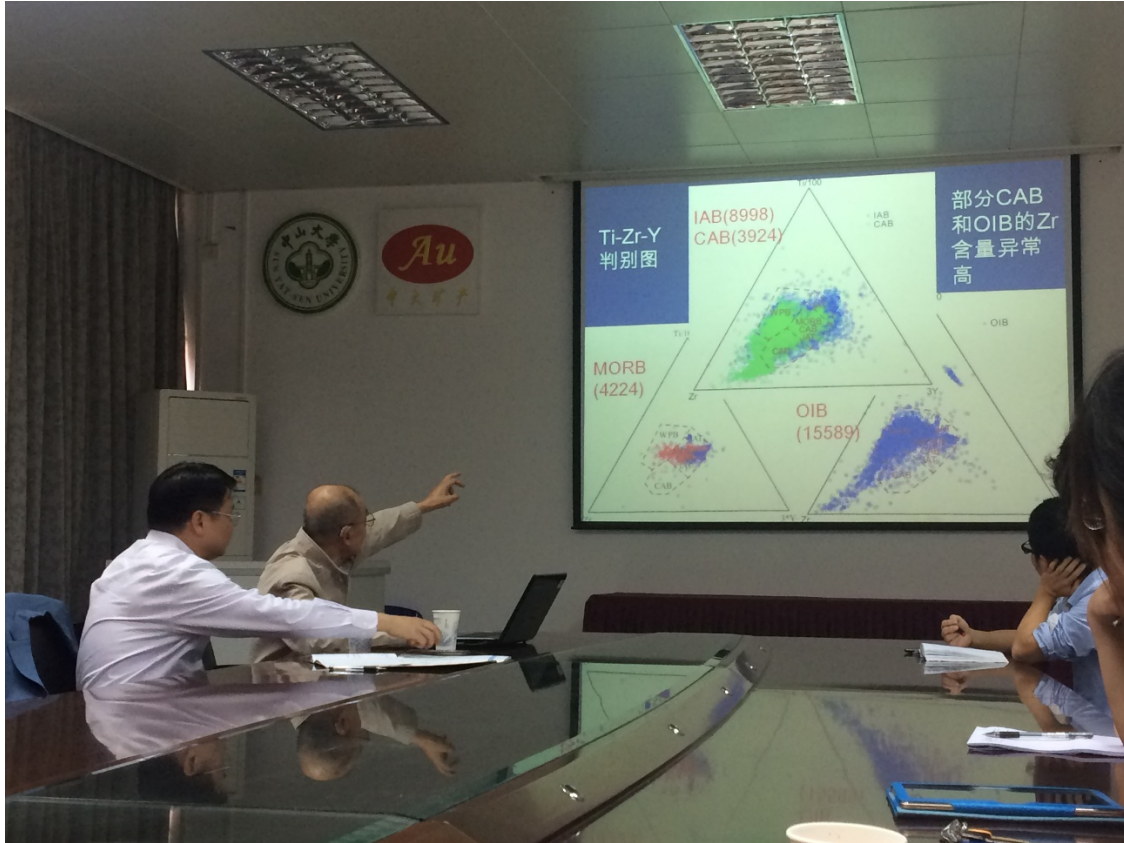
9.)

On Apr. 8 to 9, the 1<sup>st</sup> big data and mathematical geosciences congress of China was held by big data and mathematical geosciences professional committee of Chinese Society for Mineralogy, Petrology and Geochemistry, School of Earth Science and Geological Engineering, Sun Yat-sen University and Guangdong Provincial Key Lab of Geological Processes and Mineral Resource Survey in Guangzhou, Guangdong province. About 50 researchers from all over the China attended this congress. The members (Xiaotong Yu, Pengpeng Yu and etc.) of IAMG-SYSU took part in this meeting.





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Pro. Chonglong Wu gave a report on opening ceremony. And the congress elected the big data and mathematical geosciences professional committee, Pro. Yongzhang Zhou was elected as the chairman of the committee and make closing speech.

### 3. List of members of IAMG-SYSU

Ms. Qiyuan Liu, President & Treasure, Ph.D degree student at SYSU

Mr. Xiaotong Yu, Treasure, Master degree student at SYSU

Mr. Le Gao, Honor President, Ph.D degree student at SYSU

Mr. Pengpeng Yu, Vice-President, Ph.D degree student at SYSU

Mr. Jia Niu, Vice-President, Ph.D degree student at SYSU

Ms. Jingru Zhang, Postdoctoral, work in SYSU

Mr. Gnanam, Postdoctoral, work in SYSU

Ms. Liping Mo, Ph.D degree student at SYSU



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Ms. Qi Zou, Master degree student at SYSU  
Mr. Shuo Chen, Ph.D degree student at SYSU  
Mr. Yu Wang, Master degree student at SYSU  
Ms. Xuejiao Dai, Master degree student at SYSU  
Ms. Shiyang Tao, Master degree student at SYSU  
Mr. Chao Qi, Master degree student at SYSU  
Mr. Yupan Liu, Ph.D degree student at SYSU  
Mr. Zhipeng Liang, Master degree student at SYSU  
Mr. Shuteng Xu, Master degree student at SYSU  
Ms. Yan Zhang, Ph.D degree student at SYSU  
Mr. Wenchao Lv, Ph.D degree student at SYSU  
Mr. Changyu Zeng, Ph.D degree student at SYSU  
Ms. Yuzhen Liu, Ph.D degree student at SYSU  
Mr. Liang Yang, Master degree student at SYSU  
Mr. Liangrong Yuan, Master degree student at SYSU  
Ms. Miaomiao Chen, Master degree student at SYSU  
Ms. Xiaoyan Shi, Master degree student at SYSU  
Mr. Hongen Zhang, Master degree student at SYSU  
Mr. Tong Yang, Master degree student at SYSU  
Ms. Wenwen Xiang, Master degree student at SYSU  
Mr. Xingbang Liang, Master degree student at SYSU  
Mr. Lin Li, Master degree student at SYSU  
Mr. Shishan Zhou, Ph.D degree student at SYSU  
Ms. Qianwen Guo, Postdoctoral, Work in SYSU  
Mr. Yang Liu, Master degree student at SYSU  
Ms. Na Xiu, Ph.D degree student at Uppsala University  
Mr. Fei Huang, Ph.D degree student at Uppsala University

### **Steering Committee:**

Professor Yongzhang Zhou, School of Earth Science & Geological Engineering  
Associate Professor Weisheng Hou, School of Earth Science & Geological Engineering



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Associate Professor Zhenghai Wang, School of Earth Science & Geological Engineering

Associate Professor Gu Cheng, School of Earth Science & Geological Engineering

Dr. Xiao Fan, School of Earth Science & Geological Engineering

Dr. Guifang Zhang, School of Earth Science & Geological Engineering

### 4. Budget for the students' activities for the year of 2016-2017

Activity	Benefits	Expected expenditure
<b>Inviting Speakers</b>	Students will benefit from their speech	600 dollar
<b>Holding IAMG-SYSU Meeting every 2 month</b>	Share our MG learning experiences and research results	300 dollar
<b>Outdoor Activity</b>	Increasing communication between the IAMG members	550 dollar
<b>Interviewing IAMG student chapter in China University of Geosciences, Wuhan</b>	Connect with outer student chapter and hold activities	550 dollar
<b>Publicizing and other fees</b>		500 dollar
<b>Student travel grants</b>	A small amount will be utilized to fund students to attend conferences related to Geosciences	500 dollar
<b>Total</b>		3000 dollar