

SAC Report 2015

Helmut Schaeben, Aug 26, 2015

IAMG Student Chapters approved for the current year 2015 are

1. China University of Geosciences - Wuhan, China,
2. Freiberg University of Mining & Technology, Germany,
3. Sun Yat-Sen University - Guangzhou City, China,
4. ENSG-Nancy University, Nancy, France,
5. ITC (ISCI), University of Twente, Enschede, The Netherlands,
6. Stanford University - Stanford, California, USA,
7. Water, Earth, Environment Center of the INRS University in Quebec, Canada,
8. University of Wyoming - Laramie, WY, USA,
9. Indian Statistical Institute - Bangalore, India.

The Student Affairs Committee (Jacynthe Pouliot, Ute Mueller, Raimon Tolosana-Delgado, David Collins, and Helmut Schaeben) received a total of six annual reports from our chapters at Freiberg, Guangzhou, Nancy, Enschede, Stanford, and Laramie; we did not receive reports from Wuhan, Quebec, and Bangalore, even though I reminded them several times. The Quebec chapter may suffer from some confusion about the due date of the annual reports. All reports are attached to this report.

I am afraid that the Indian chapter shares the sad fate of the Hungarian would-be-chapter, which was apparently a construct to get the IAMG 2010 meeting in Budapest organized rather than the proper formation of a student chapter with some perspective.

All of the six chapters, which submitted an annual report, appear to have been active. Therefore, the committee does not have any objections or reservations to renew their status as officially recognized IAMG student chapter.

Since their websites are the most visible part of our student chapters they should be carefully maintained. However, several parts of the Freiberg chapter (e.g. Links), of the Sun Yat-sen website (e.g. Meeting), of the Nancy website (e.g. Activities, External Seminars), of the Enschede website (e.g. News&Activities, Links), and of the Stanford website (e.g. Events, Our Activities), are outdated. Only the Wyoming website is up-to-date.

The Nancy chapter should be commended for putting a fairly regular set of talks together, even though their 2015 report and the schedule published on their website do not perfectly match.

As usually, the report from Sun Yat-sen could be shrunk from 11 to 4 pages by omitting the photos. When reporting successful defenses of master and PhD theses by members of the chapter, they do not even include the titles of the theses.

The Freiberg chapter states that its biggest event in 2015 is IAMG2015 but did not engage at all in its organization.

Only the Freiberg, Laramie, and Stanford chapters presented something akin to a budget, Freiberg and Stanford applied for US\$ 1,000 each. Freiberg received the grant already. Laramie applied for US\$ 2,000 to invite guest speakers. Nancy announced that they may apply later for financial funding. Enschede asks to clarify the whereabouts of a money transfer that never got through to them.

When I reminded the chapters to submit their reports I wrote: *"Please Check the Guidelines for operation and continued funding of a Student Chapter (<http://www.iamg.org/index.php/publisher/articleview/frmArticleID/43>) and address the issues listed there in your report. I would like to ask you to put special emphasis on proper and continuously updated web sites including information - how to get in touch with the chapter, - who the officers are, and how to contact them, - who the advisors are, and how to contact them, - concerning your major activities."* What was thought as guideline for the annual report may not have been sufficiently clear. A template for writing their report may be helpful and facilitate both writing and evaluating the reports. There would still be space for individual issues.

I would like to thank the members of the Student Affairs Committee for their efforts to support IAMG's Student Chapters.

Freiberg, Aug 26, 2015



Helmut Schaeben, Chair IAMG SAC

Cover Letter

IAMG Student Chapter Freiberg

Technische Universität Bergakademie Freiberg
Freiberg, Saxony (Germany), 2nd August, 2014.

IAMG STUDENT CHAPTER ACTIVITIES REPORT

Dear Madam, dear Sir,

We would like to report some of our main activities during the last months. The report is in accordance to the guidelines for running a Student Chapter published on the website of the International Association for Mathematical Geosciences (IAMG). Additionally we would like to briefly describe some of our future activities.

Our website is up to date under [<http://www.iamg.tu-freiberg.de>]. We would like also to mention that we are keeping a regular offer of free Short Courses to motivated students of the TU Bergakademie Freiberg.

We thank you very much for the support and for your attention,

Sincerely,

Committee of the IAMG Student Chapter
Technische Universität Bergakademie Freiberg

Current Members of the IAMG Student Chapter Freiberg

President:

- **Muhammad Afzal Gulzar** - Geochronology, Tectonics
(PhD)afzalchourbati@gmail.com

Treasurer:

- **Vasila Sulaymonova** - Geochronology/Geomorphology
(PhD)vsulayman@gmail.com

Members

- **Arsalan Ahmed Othman** - Tectonics, Remote Sensing
(PhD)arsalan.aljaf@gmail.com
- **Bernard Ayumu** - Hydrogeology (Msc)
bernard.ayumu@gmail.com
- **Duodu John Agyei** - Geology (PhD)
geoconsultalliedsurvey@yahoo.com
- **Haitham Al Dulaimi** - Hydrogeology (PhD)
hrs_met77@yahoo.com
- **Ibrahim Abdelazim (Dr.)** - Rock mechanics
abdelazimi@yahoo.com
- **Kwame Odame Baomah** - Tectonics (PhD)
kwame.tekay@gmail.com
- **Mustafa Majeed Al-Mukhtar** - Hydrogeology (PhD)
m_m_almukhtar@yahoo.com
- **Omar Rafee Mahmood Alomar** - Hydrogeology (PhD)
sedrarasha@yahoo.com
- **Raja Jahanzeb Khan** - Geochronology (PhD)
zeb_libra@yahoo.com
- **Saba Alsultan** - (MSc)
sabayaas@yahoo.com
- **Syed Muntazir Abbas** - Rock Mechanics (PhD)
geomuntazir@yahoo.com

Advisors:

- **Prof. Dr. Helmut Schaeben** - Geomathematics / Geoinformatics
- **Dr. Faisal Shahzad** - Remote sensing

Activities of the IAMG Student Chapter TU Freiberg (2014-15):

The activities of the Student Chapter Freiberg are mostly related to short courses, talks and short field trips. Due to the unexpected and unforeseen reasons IAMG student Chapter Freiberg did not achieve some planned courses in Freiberg like short courses of Dr. Faisal Shahzad and IAMG Distinguished Lecturer 2014 Dr. Eric Grunsky. However now these activities are in the future plans and these Short courses are already scheduled. On the other hand Student Chapter had following activities:

I-Field Trips:

II-IAMG Talks:

I-Field Trips:

1st September to 8th 2014:

Members of IAMG Students Chapter Freiberg participated summer Geological field trip in Alps. Dr. Susana Schnider led the field and the main objective of the fields was to see the geology of the Alps. The Alps are, in a geological sense, a collisional orogen resulting from the collision of the European continent ("Europe") with the Adriatic continent ("Adria", also termed "Apulia") after the subduction of intervening ocean basins. The collision took place in the Tertiary but was preceded by other collision events in the Cretaceous period. The gained knowledge active members of the Chapter had to compute using such programs like Matlab, R, ArcGIS which they learnt from previous courses organized by IAMG Chapter.

31, July 2015 Field trip to Freiberg Mine:

Members of the IAMG Student Chapter Freiberg visited Freiberg mine. The core objective of the visit is to understand the underground mining system and the geology of the Freiberg. The mine is one of the largest and oldest in Saxony. The "underground Freiberg" covers an area of 5 x 6 km below the silver city and beyond with a complete route network of about 2,000 km -. So that it is one of the largest silver mining districts in Europe were approximately 8,000 tons in its entire history of mining brought valuable silver from the floor of the infirmary and made Freiberg Germany's Silver City. On various management routes in 60-180 m depth, with a route network of about 20 km, you can experience the mining of the 14th to 20th centuries."



Fig.1: Visit of the IAMG members to Silver mine Freiberg.

II-IAMG Talk:

Apatite Fission Track Modelling:

IAMG student Chapter Freiberg organizes a talk on AFT modelling with Hefty software. HeFTy is a popular thermal history modelling program. HeFTy uses a ‘Frequentist’ approach, in which formalized statistical hypothesis tests assess the goodness-of-fit between the input data and the thermal model predictions. The main objective of the talk to understand how these models are fit in the Geological history. The talk was given by Raja Jahanzeb Khan (PhD Student), one of the active IAMG student Chapter Freiberg member.

Upcoming Activities:

We intend to bring more activities to our Student Chapter. Our activities were mostly related to new short courses. The details of some planned activities are given below:

1) IAMG 2015:

The biggest event for the student chapter in Freiberg is the 17th annual conference of the International Association for Mathematical Geosciences IAMG'2015 takes place 5th-13th of September 2015 in Freiberg, Germany. The scientific sessions will be held on September 7-10.

2) Short course by Dr. Faisal Shahzad:

Dr. Faisal Shahzad, former member of the IAMG Student Chapter Freiberg. His research interest is the use of Remote Sensing and GIS technology to quantify the earth surface processes. He works on theoretical understanding of surface processes - from the methodological analysis over algorithm design to finally their application in regions around the world, mainly Himalayas. He has already developed a MATLAB based toolbox for understanding tectonic geomorphology from digital elevation models i.e. TecDEM.

His contributions for the IAMG Student Chapter Freiberg are remarkable. He did several short courses for IAMG Freiberg student Chapter.

His course was planned in June 2015. But due to some urgent assignment it is postponed. The course will be in the last week of August 2015.

3) IAMG Distinguished Lecturer 2014 Dr. Eric Grunsky Short course:

One day course will be given by Dr. Eric Grunsky on 12 September 2015. Dr. Eric Grunsky is a research scientist at the Geological Survey of Canada (GSC), Natural Resources Canada, Ottawa, Ontario will give the short course on the topic of **geochemical compositional data analysis** on September.

Dr. Eric Grunsky has worked at the GSC carrying out research in the discovery of geochemical and geological processes from the evaluation of geochemical survey data since 2002. Dr. Grunsky makes use of multivariate statistical methods and spatial statistics as the basis of his research. His research has resulted in a procedural approach for processing and interpreting

geochemical data. Geochemical data is first explored for “Process Discovery” from which models and hypotheses of geological/geochemical processes can be constructed. Models and hypotheses are constructed then tested by integrating the geochemical data with existing geological/environmental/climatic knowledge within a spatial context. Testing these models is defined as “Process Validation” from which a quantitative probabilistic framework can be constructed within a spatial context.

4) Talk series:

We are contacting some renowned scientist for talk and as well as for short courses. After the IAMG 2015 conference it will be finalized.

IAMG members Achievements corner:

- IAMG Student Chapter Freiberg member Sara Attarchi completed her PhD in Forestry, Remote sensing in September 2014.
- IAMG Student Chapter Freiberg member Mehdi Rahname completed his PhD in Remote sensing November 2014.
- IAMG Student Chapter Freiberg member completed his Ibrahim Abdelazim December in 2014
- IAMG Student Chapter Freiberg member Le Hai Ha completed his PhD in Geoinformatics (2014)
- IAMG Student Chapter Freiberg member Arsalan Ahmed Othman is going to defend his Phd Thesis in August 2015.

Application for IAMG financial year 2015-16

In accordance to the guidelines to run a Student Chapter published on the website of IAMG, we would like to apply for a financial support for the period of 2015/2016. This support will help our IAMG Student Chapter to bring some activities for the forthcoming months.

Every year we receive an amount of 1000 USD that is really help us to maintain some activities as a Student Chapter.

Budget for the students activities for the year 2015-16. We would like to use the acquired funds in the following manner:

Activity	Benefits	Expected expenditure
Inviting Speakers	We plan to invite speakers with in the field of geosciences so that the students can benefit from the talks	500 USD
Student travel grants	A small amount will be utilized to fund the students to attend conferences related to Geosciences	500 USD
Budget for 2015-16		1000 USD

Details of our Bank Account

Account holder: Ms. Vasila Sulaymonova

Account no.: 317433100

Bank identification no.: 87040000

IBAN: DE90870400000317433100

BIC: COBADEFFXXX

Commerzbank AG, Filiale Freiberg – Schlossplatz

IAMG Student Chapter Freiberg | B.-v.-Cotta-Str. 2 | 09599 Freiberg | GERMANY

We intend to fulfill the mentioned proposed activities so that active members that also have some benefits for being an IAMG Student member.

We expect to intensify our activities during the last quarter of the year when the new semester starts and we hope to get more student members interested in the activities of the IAMG Student Chapter.

We thank you very much for the past support and for your attention,

Sincerely,

Committee of the IAMG Student Chapter

Technische Universität Bergakademie Freiberg

Annual Report of IMAG Student Chapter of ITC

During the past months we have been working on the following fields: (a) member recruitment, (b) activities related to research in mathematical geosciences, (c) administration issues.

(a) Member recruitment and updating member lists.

Six of our members graduated within 2015 and another three earlier than that. We recruited twelve new members this year.

We typically introduce IAMG during the welcoming of new PhDs but this year we intend to also deliver a short introduction during the welcome activities for the new MSc students coming September. We would like to include them too, especially since often some of them continue or return for their PhD in ITC.

(b) Activities related to research in mathematical geosciences

As we mentioned before, we could not organize invited talks because of lack of funding. Thus, our activity was limited to the organization of local events. We co-organized a PhD day together with our colleagues on Monday, 30 June 2014. We plan to organize a similar event coming October.

(c) Administration issues

We are preparing to have elections to renew the representative board coming October, after recruiting new members at the planned introduction activities of September. In this way we would like to have more new people participate in the board. We will propose to assign one person responsible for the website.

A pending issue is that of the funding. You notified us that you have transferred funding, however no amount of money has reached our account (please see attached bank statements from December 2014 onwards). Can you confirm that the transaction actually took place?

For confirmation: our account details are:

Account number: 59 21 46 715 IBAN code NL51ABNA0592146715

SWIFT/BIC code: ABNANL2A.

We did not proceed with the payment of the membership renewal while this issue is still pending, we would like first to make sure all contact information is correct. Who should we contact to resolve that matter?

The above mentioned account belongs to the Student Association Board of ITC, since as a student chapter we do not have an own account yet. We have taken action to establish one and the process is still ongoing. We will notify you of any developments.

A final administrative issue is the appointment of a third advisor, after the retirement of Dr.D.Rossiter. We have made initial contacts but the issue has been very time-consuming, with the busy schedule of Professors and staff. We hope to have a positive response by the end of September, when everyone is back from their fieldwork and holidays.

We plan to update the website in the beginning of October, to include: the new advisor, the contact details of newly elected representatives, and the updated member list. If you consider it necessary we can immediately upload the existing list and a report on last year's PhD activities (Introduction-PhD day-graduations- ongoing research).

Annual report of activities 2014-2015

Nancy IAMG Student Chapter (France)

ENSG - Université de Lorraine

In October 2008, we were allowed to create a new Student Chapter at the ENSG (National School of Geology) – Nancy Université, France. In January 2012, Nancy Université became Université de Lorraine, from the merging of three universities. This report presents our group activities from September 2014 until July 2015 and looks ahead to the next years.

Activities

Internal seminars

Every week, the student chapter organizes a seminar of about one hour dealing with geological modelling and numerical approaches applied to geosciences. These seminars are open to the ENSG students. Some of those seminars are given by the student chapter members themselves presenting their thesis research or a bibliographic review about a specific subject. The list of seminars given by the student chapter members are presented below:

Date	Student Name	Title of the seminar
17/10/14	Arnaud Botella	Hex-dominant meshes generation
16/01/15	Benjamin Chauvin	Scripting in Qt / Gocad
23/01/15	Benjamin Chauvin	Develop using Windows
30/01/15	Jonathan Edwards	Stratigraphic correlation using a training model
06/02/15	Antoine Mazuyer	Reservoir in situ stress estimation by inverse methods
13/02/15	Antoine Mazuyer and Arnaud Botella	Meshes and finite element method
27/02/15	Marion Parquer	Simulation and conditioning of sedimentary objects with surface and sub-surface data
06/03/15	Gabriel Godefroy	Stochastic structural simulation
13/03/15	Guillaume Rongier	Multiple-point simulations
24/04/15	Antoine Mazuyer	Solving a finite element problem
29/06/15	Guillaume Rongier	Stochastic simulation of channels using L-systems

External activities (participation in conferences, workflows and courses)

Over the last year, the IAMG student chapter members have presented their advances in geological modeling, meshing construction and development of new concepts in numerical geology in several events:

- **September 2014 (Nancy, France):** The members presented their work at the Gocad meeting.
- **November 2014 (Dubai, UAE):** Jonathan Edwards presented his work "Assessing Uncertainty in Stratigraphic Correlation: A Stochastic Method Based on Dynamic Time Warping" at the Integrated Reservoir Modelling conference "Uncertainty Management: Are we doing it right?" organized by the European Association of Geoscientists and Engineers.

Gocad Meeting

In September, research works conducted during the year will be presented to industrial sponsors and academic associated researchers at the Gocad meeting in Nancy. This event is internationally recognized as a window on the progress of geomodeling and application of computer tools in geosciences. As usual, the student chapter is going to take an active part in the organization of this event. Our group members will also have the opportunity to present the applications they are developing during the training sessions

Members

This year our student chapter counts 18 students:

- 7 PhD students: Arnaud Botella, Guillaume Rongier, Jonathan Edwards, Benjamin Chauvin, Gabriel Godefroy, Marion Parquer and Antoine Mazuyer.
- 11 Master students: Modeste Irakarama, Rémy Cheverry, Claire Launoy, Côme Le Breton, Julien Renaudeau, Sophie Audonneau, Arthur Guyau, Pierre Anquez, Simon Fuet, Margaux Ragueneel and Anaïs Pons.

The Student chapter board has been modified:

- Jonathan Edwards kept his role of President
- Marion Parquer is now Treasurer
- Gabriel Godefroy kept his role of Secretary
- Benjamin Chauvin is now Webmaster.

Marion Parquer and Gabriel Godefroy have begun their doctoral studies in October and November 2014, and their subjects of research are respectively "Conditioning of sedimentary objects with surface and subsurface data" and "*Stochastic structural modeling*".

We are also in contact with students from other departments of the Nancy School of Geology, including petroleum, reservoir engineering and mine and raw minerals pathways.

Perspectives

During the coming year we plan to organise a field trip to the Tian Shan (China). The aim of the trip is to collect data that will be used to test the modelling methods we develop in our research topics, get contacts with the geologists of the university of Zhejiang, present them our work, and introduce their students to geologic modelling, while allowing our team to directly observe geologic structures. Indeed, the Tian Shan presents several great geologic objects, that can be observed on many outcrops.

The budget needed for such project is being built, and we will send you an application form later to ask you to help us fund our project.

We hope this short report gives you a clear overview of our activities for the last year. Do not hesitate to visit our website (<http://www.gocad.org/studentchapter>) and to contact us for any comments or questions.

The President of the IAMG student chapter at ENSG-Université de Lorraine,

Jonathan Edwards

INTERNATIONAL ASSOCIATION OF MATHEMATICAL GEOSCIENCES



ANNUAL REPORT

STUDENT CHAPTER, STANFORD UNIVERSITY

AUGUST 2015

PRESIDENT	LEWIS LI
VICE-PRESIDENT	OGNJEN GRUJIC
TREASURER	GUANG YANG
FACULTY ADVISOR	PROF. JEF CAERS

SUMMARY

Statement that commitments have been met, approved by the assigned faculty advisor

In the past year, the chapter has regularly organized events / seminars / workshops benefiting its members. Organization of wider variety of events has also helped the chapter to increase awareness about IAMG within the School of Earth Sciences and Stanford University. We are proud to announce that IAMG student chapter now has 35 active members, 4 faculty advisors and has organized on an average three event every month in past twelve months of functioning

All new members are on-boarded to chapter activities and introduced to research activities of the group via presentations. A summary of research interests of all its members is also available on website. IAMG student chapter has an active website that lists all its members, faculty advisors, research interests, upcoming events and details of last events.

Student Chapter Website: <https://pangea.stanford.edu/ERE/research/scrf/IAMG-StudentChapter/>

ACTIVITY DETAILS

DATE	EVENT	DETAILS
October 2014	FIELD TRIP	<i>IAMG Night Out: California Academy of Sciences</i>
October 2014	MEMBERSHIP NETWORKING	<i>Membership drive to recruit new members Welcome back event for members; Lunch/Dinner</i>
October 2014	SOFTWARE SESSION	<i>Petrel Essentials and Geomodeling</i>
November 2014	SOFTWARE SESSION	<i>Evaluating seismic data</i>
December 2014	SOFTWARE SESSION	<i>GoCAD Essentials and Modeling</i>
January 2014	SOFTWARE SESSION	<i>PETREL Essentials</i>
February 2015	SOCIAL ACTIVITY	<i>Lunar New Year celebration</i>
March 2015	SEMINAR	<i>2 Seminars from 1 Guest + Prof.Gordon Kaufman</i>
March 2015	SEMINAR	<i>1 Seminar from Industry Specialists</i>

We certify that we have met commitments required to be an active student chapter of IAMG.

(Orhun Aydin)
President, IAMG Student Leadership Committee

(Jef Caers)
Faculty Advisor

BUDGET

IAMG Student chapter currently does not have any sources of funding. For the past eight months, we utilized the leftover funds from the previous years to sponsor events for our members. We wish to maintain an active IAMG student chapter on campus and like to organize one-to-two events every month. For the next year, we also propose to organize social events and off-campus trips, apart from organizing seminars and workshops. The breakup of budget for next year is as follows:

EVENT TYPE	COST	DETAILS
LUNCH CUM SOCIAL EVENT	\$ 300 x 5 = \$ 1500	Lunch meeting for IAMG Members One per quarter
SOFTWARE SESSIONS	\$500	One software session per month on average
OFF-CAMPUS TRIPS	\$250x 4 = \$ 1000	Off-campus trip; Field trips One per quarter
MEMBERSHIP	\$ 500	Purchase promotional gifts – pens and highlighter to increase membership
TOTAL	\$ 3500	

We have requested funding from Head of Department, Department of Energy resources engineering. The department has agreed to fund \$2500 (**Two-thousand-five-hundred-dollars only**) to IAMG Student Chapter. As such, we would like to request for budgetary support of **\$ 1000 (One-thousand-dollars only)** for Stanford student chapter from IAMG.

BUDGET	COST
IAMG STUDENT CHAPTER	\$ 3500
ANTICIPATED FUNDING	\$ 2500
REQUESTED FUNDING	\$ 1000

PLANNED ACTIVITIES

For the upcoming year, IAMG student chapter would like to continue organizing one to two events per month for its members. The planned activity calendar for IAMG Stanford student chapter is as follows:

TENTATIVE DATE	EVENT TYPE	DETAILS
October 2015	FIELD TRIP	IAMG Hiking Trip
October 2015	MEMBERSHIP NETWORKING	Membership drive to recruit new members Welcome back event for members; Lunch
October 2015	WORKSHOP	Panel of senior students to answer questions for junior students on grad life + internships
October 2015	SOFTWARE SESSION	Petrel Essentials
January 2016	SOFTWARE SESSION	GoCAD Essentials
February 2016	SEMINAR	Seminar from guest speakers
March 2016	FIELD TRIP	Trip to fields in North San Joaquin Valley
May 2016	ELECTION	Electing the new board of Stanford IAMG Student Chapter

FINANCIAL DETAILS

Chapter's bank name, mailing address, account number, SWIFT code, name on the account (to permit direct deposit), details of money transfer and tax related issues shall be clarified with IAMG's treasurer in mutual agreement

All student groups (professional and non-professional) at Stanford are regulated by Student Academic and Leadership office (SAL: <http://studentaffairs.stanford.edu/sal>). As per SAL policy, all voluntary student groups (VSOs) which receive their entire funding from the Stanford, are not allowed to maintain an external bank account. (<http://studentaffairs.stanford.edu/sal/manage/on-campus-funding>). IAMG Stanford student chapter has been currently utilizing funds from Stanford University, **as such does not operate a separate bank account.**

As we expand our activities, we would like to request for external funding from IAMG. As per SAL policies, student groups are allowed to open a separate bank account if an external funding request has been approved. In order to request permission from SAL, **we require a letter from IAMG confirming our funds for the year.**

Once approved, we shall open a bank account with Stanford Federal Credit Union, details of which are as follows:

NAME	DETAILS
BANK NAME	STANFORD FEDERAL CREDIT UNION
ADDRESS	TRESSIDER MEMORIAL UNION 459 LAGUNITA DRIVE, STANFORD, CA 94305
ACCOUNT NAME <i>(Proposed)</i>	IAMG STANFORD STUDENT CHAPTER
ABA ROUTING NUMBER	321177722
SWIFT CODE	<i>SFCU Bank does not have a swift code. international wire transfers should be via correspondent bank</i>

FINANCIAL AUTHORITY

Names of individuals who may sign checks on account (faculty advisor and treasurer)

During the last elections conducted in April 2013, members elected Mr. Guang Yang as the treasurer for IAMG student chapter. He currently deals with all financial transactions for the IAMG account held with Stanford student services (SSE).

For future transaction in IAMG's own bank accounts, we would like to authorize our treasurer and faculty advisor to sign checks.

DESIGNATION	NAME	EMAIL ADDRESS
PRESIDENT	LEWIS LI	lewisli@stanford.edu
FACULTY ADVISOR	PROF. JEF CAERS	jcaers@stanford.edu

CONTACT DETAILS

EMAIL ADDRESS

Email address of main contact person (preferably the President) of the Student Chapter.

IAMG Stanford student chapter can be contacted by emailing the leadership committee. The email addresses of the leadership committee are as follows:

DESIGNATION	NAME	EMAIL ADDRESS
PRESIDENT	LEWIS LI	lewisli@stanford.edu
VICE-PRESIDENT	OGNJEN GRUJIC	ogyg@stanford.edu
TREASURER	GUANG YANG	gyang2@stanford.edu
FACULTY ADVISOR	PROF. JEF CAERS	jcaers@stanford.edu

MAILING ADDRESS

Postal address for contacting IAMG student chapter is as follows:

IAMG STUDENT CHAPTER,
367 PANAMA MALL, ROOM 065
DEPARTMENT OF ENERGY RESOURCES ENGINEERING
STANFORD UNIVERSITY, CALIFORNIA, USA 94305

2015 Annual Report of IAMG Student Chapter at Sun Yat-sen

University (IAMG-SYSU)

(July 31, 2014- July 31, 2015)

By Le Gao,
President of IAMG Student Chapter at SYSU

1

IAMG-SYSU is an active organization, consisting of post-graduates of Sun Yat-sen University, China. It aims at fostering its members' interests, to wide their scope and enrich their creative thinking in in mathematical geology, quantitative modeling of geological processes, and geo-informatics; to disseminate the latest progress in geological mathematics research and the related geo-information; to carry out the academic communication and activities with the scholars working in the same field nationally and internationally. During the past year the student chapter have done great effort in promoting mathematical geology, geo-mathematics, and geo-informatics.

At present, there are 16 registered members, all are the Master or Ph. D. program students from The School of Earth Sciences and Geological engineering and the School of Mathematics and Computational Sciences of SYSU.

会员 Core Members (partly)

		主席 高乐 博士研究生 Gao Le, Ph.D student with study focusing on 3D modeling.		
	副主席 虞鹏鹏 博士研究生 Yu Pengpeng, Ph.D student with study focusing on prediction of mineral resources.		秘书长 刘奇缘 博士研究生 Liu Qiyuan, Ph.D student with study focusing on computer simulation.	
	张景茹 博士后 Zhang Jingru, Postdoctor with study focusing on environmental geology		秘书 李兴远 博士研究生 Li Xingyuan, Ph.D student with study focusing on Geochemistry.	
	骨干 莫莉萍 博士研究生 Mo Liping, Ph. D student with study focusing on environmental geology.		骨干 刘玉珍 博士研究生 Liu Yuzhen, Ph.D student with study focusing on Mathematical model.	
	骨干 陈铄 博士研究生 Chen Shuo, Ph.D student with study focusing on petrology.		骨干 张彦龙 硕士研究生 Zhang Yanlong, M.S student with study focusing on geostatistics.	
	骨干 杨威 硕士研究生 Yang Wei, M.S student with study focusing on fractal geology.		骨干 陶诗阳 硕士研究生 Tao Shiyang, M.S student with study focusing on quantative estimation	
				副主席 牛佳 博士研究生 Niu Jia, Ph.D student with study focusing on metallotectonics.
				林振文 博士后 Lin Zhenwen, Postdoctor with study focusing on Geochemistry.
				骨干 唐沐阳 博士研究生 Tang Muyang, Ph. D student with study focusing on calculation model
				骨干 周维丽 硕士研究生 Zhou Weili, M.S student with study focusing on Geochemistry.
				骨干 郭晓昱 硕士研究生 Guo Xiaoyu, M. S student with study focusing on Geochemistry.

The presently registered members of IAMG-SYSU, with Mr. Le GAO, the President, at top

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In March, 2015, Mr. Le GAO was elected new president of IAMG-SYSU, replacing the past president, Mr. Xingyuan LI, who went abroad to Regina University, Canada, as a Ph. D. student. At the same time, Miss Qiyuan Liu was elected secretary-general. Mr. Peng Yu and Mr. Jia Niu vice-presidents. They are the Ph.D student in

SYSU.

Mr. Le GAO is a senior Ph.D. student with main study interest in geochemical and geophysical data mining, and 3D computer simulation. He has then just come back from the Uppsala University, where he studied from Sep. 2013 to Mar. 2015 due to the funding from China National Scholarship Council.



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Great thank to the Steering Committee headed by Dr. Yongzhang Zhou, professor of SYSU, also the Chairman of the Topical Section of the IAMG for Chinese Members. Included in the Steering Committee are Dr. Weisheng HOU, Zhenghai WANG, Dr. Fan XIAO, Gu CHENG, Dr. Guifang ZHANG, all are tenured associate professor or lecture at SYSU. They supervised the IAMG-SYSU carefully, and generously provided necessary supports.

指导团队 Advisors



周永章 教授
Dr. Yongzhang Zhou,
with research interest in
geomathematics and
computer simulation.



肖凡 讲师
Dr. Fan Xiao,
with research interest
in 3D modeling &
Geochemistry.



侯卫生 副教授
Dr. Weisheng Hou,
with research interest in
3D geological modeling
& Geophysics.



王正海 副教授
Dr. Zhenghai Wang,
with research interest in
quantitative prediction of
mineral resources.



成谷 副教授
Dr. Gu Cheng,
with research interest
in applied geophysics.



章桂芳 讲师
Dr. Guifang Zhang,
with research interest
in remoting sense
data processing.

The Steering Committee headed by Prof. Yongzhang Zhou

4

IAMG-SYSU has quite generous studio and meeting room, where various IAMG-SYSU's activities are hold. Academic seminars are regularly held every month, with or without topics. The latest research advancing by IAMG-SYSU members and its Steering Committee members were shared here, as well as those by globally frontier scholars.



Glancing at IAMG-SYSU members in the studio



Glancing at IAMG-SYSU seminar in the meeting room

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On March 27, 2015, Dr. Haisheng YANG was invited to host a seminar on the philosophy to do a serious research as well as mathematical models and computer simulation. He is one of former IAMG-SYSU members and one of the former students supervised by Prof. Yongzhang Zhou, and at present an associate professor at School of Lingnan, Sun Yat-sen University.



Dr. Haisheng YANG, one of former IAMG-SYSU members, hosting a seminar



The members of IAMG-SYSU present at Dr. Haisheng YANG's seminar

6

The most exciting event is the annual thesis defence of Master or Ph.D candidates. Two Ph.D. and one Master level students succeeded in defencing their theses in just past June. They are Mr. Jietang ZHANG, Zhanxin XIAO and Weihua GUO. Great congratulations on them!



Congratulations on the success of thesis defence of Master/Ph.D candidates at IAMG-SYSU, June 2015

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Academic exchange is an important duty for IAMG-SYSU to promote. In past year, numerous members attended important scientific conference.

October 10 to 12, 2014, the 13th National Symposium on Mathematical Geology and Geo-Information was held in Xuzhou, Central China. More than 200 scientists and post-graduates attended the conference. Mr. Xingyuan LI, the then president of IAMG-SYSU, and Prof. Yongzhang ZHOU, the advisor of IAMG-SYSU Steering Committee, were present at the meeting, and gave topic speech.



Scenario of 13th National Symposium on Mathematical Geology and Geo-Information .

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June 23 to 26, 2015, the 15th Annual Conference of Chinese Society for Mineralogy, Petrology and Geochemistry was held in Changchun, North China. There were more than 1000 Chinese scientists and student present at the conference. Five members of IAMG-SYSU, Mr. Pengpeng YU, Mr. Jia NIU, Miss Liping MO and Miss Shiyang TAO, as well as Prof. Yongzhang ZHOU, attended the conference. All gave talks at the conference.



IAMG-SYSU members with Prof. Yongzhang Zhou at the 15th Annual Conference of Chinese Society for Mineralogy, Petrology and Geochemistry, 2015.

Field trip and geological observation are basic for the members of IAMG-SYSU with geological background. Most of them have tasks to do so.

In past year, all member attended field trip and geological observation aiming at research direction. Among the observation sites are the Qinzhou – Hangzhou Bays orogeny belts, the Shuikoushan Sn deposit, the Xialei Mn deposit, and the Shilu Fe deposit. The attendants measured the geological sections and collected rock samples seriously.

Also, they carried out lab analysis after field trip, and mining the information from data. They enjoyed doing so!



Field observation at Xialei Mn deposit



Mr. Xiaoyu Guo & Shuo Chen work in the laboratory

List of Members of IAMG-SYSU:

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

Ms. **Qiyuan Liu**, Treasure, 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. **Zhenwen Lin**, Postdoctoral, Work in SYSU

Mr. **Xingyuan Li**, Ph.D degree student at SYSU

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

Ms. **Weili Zhou**, Master degree student at SYSU

Mr. **Shuo Chen**, Ph.D degree student at SYSU

Ms. **Yuzhen Liu**, Ph.D degree student at SYSU

Mr. **Yanlong Zhang**, Master degree student at SYSU

Mr. **Wei Yang**, Master degree student at SYSU

Ms. **Shiyang Tao**, Master degree student at SYSU

Mr. **Xiaoyu Guo**, Master degree student at SYSU

Mr. **Muyang Tang**, Master degree student at SYSU

Steering Committee:

Professor **Yongzhang Zhou**, School of Earth Science & Geological Engineering

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

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

IAMG Student Chapter

University of Wyoming

Faculty Advisor Dr. Dario Grana – President: Haris Khan

Summary of the activities: Year 2

The last academic year (2014-15) was the second year of operation for the IAMG student chapter at the University of Wyoming, coordinated by Prof. Dario Grana.

The group currently includes 16 students, mostly graduate students, in the departments of Geology and Geophysics and Chemical and Petroleum Engineering.

At the beginning of the year, we elected a new president, a vice-president, a treasurer and two other member of the student chapter committee:

- Haris Khan, President, Petroleum Engineering
- Zelong (Gerald) Wang, Vice President, Petroleum Engineering
- Wenting Wu, Treasurer, Petroleum Engineering
- Jordan Kelly Edson, Signatory Member, Geology & Geophysics
- Xiaozheng Lang, Signatory Member, Geology & Geophysics

We also contacted the web manager of the department of Geology, who volunteered to help with the website. This should allow more continuity in the website management, and more consistency with the content.

In the first meeting at the beginning of the year, we tried to recruit more students by extending the invitation to student chapters of other geoscience disciplines. Most of the previous members were senior students and some of them graduated. We were successful in recruiting some new students. Prof. Dario Grana gave a talk to present the association to students, showed applications of mathematics in several domains of earth sciences, and proposed future activities of the student chapter.

This year we had 2 invited speakers: Dr. Eric Grunsky (IAMG distinguished lecturer) and Dr. Brian Russell who gave a lecture on seismic inversion. Dr. Russell's lecture was co-sponsored by the Department of Geology. Dr. Grana also invited 2 collaborators for a couple of weeks, Prof. Henning Omre (NTNU) and Dr. Philippe Doyen (CGG) who both spent time with the IAMG students. Dr. Philippe Doyen gave a 2 hour lecture on mathematical modeling in oil and gas; and Prof. Omre gave a presentation on Bayesian inversion.

Four students gave presentations about their work. All the presentations had a good participation (about 10 students on average).

Another important highlight of the academic year is the tutoring service organized by some students to help undergraduate in geology with the calculus class (taught by Dr. Grana).

Some of the students organized a trip to the Snowy Range Area where the near surface geophysics group collected data for an aquifer modeling study. Some results of the study were projected in the 3D visualization room.

Dr. Grana also visited INSR in Quebec City for an invited talk and met with the students of the IAMG student chapter.

Finally, we also organized some informal meetings with snacks and drinks to discuss scientific topics. These meetings however were not well attended. We will try again next year with a more defined structure.

The website is currently up to date and it is available at the following address <http://geoweb.uwyo.edu/iang/> and it includes the list of current members, the list of activities, and some of the research topics of some of the students.

Unfortunately, Dr. Della Rossa, who was supposed to give a lecture on history matching could not come for family issues. We hope he will join us in the fall. The budget was utilized to invite Dr. Russell.

This year, students were more active than in the past.

For the upcoming academic year (2015-2016), we request the following funding to support the new proposed activities:

*University of Wyoming
IAMG student chapter
Budget 2015-16*

Invited speaker. Possible candidates: Lisa Stright (CSU) and Albert Reynolds (University of Tulsa)	1500
Field trip to Rawlins/Rock Springs (geology outcrops) : food and transportation	200
IAMG student memberships	150
Meetings: snacks and drinks	150
TOTAL	2000