

# SMaReF

## 瑞中汞研究框架计划

newsletter: March-May 2015. Fifth issue

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More information about SMaReF:

<http://www.slu.se/en/collaborative-centres-and-projects/smaref/>

### Words from the leadership

Welcome to Year 2 of SMaReF new post-doctoral colleagues in Umeå and Uppsala. Dr. Haiyu Yan has also brought China a bit closer to Sweden with the start of her half year at SLU.

Sweden will be returning the favor with the June 6-13 visit to Guiyang. The Graduate level course in Mercury Biogeochemistry also

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looks like it is going to fill the classrooms to the brim. And those are just the centrally organized meeting. It is the one-on-one work where things really happen. So keep up the good work, and don't hesitate to contact me if you see possibilities for more and or better cooperation.

*Kevin Bishop*

### Bid for ICMGP 2019 in Sweden

Sweden has sent in one bid to organize the ICMGP in Sweden in 2019. The application is a joint application from research groups at Swedish University of Agricultural Sciences, Gothenburg University, Swedish Environmental Research Institute and the Karolinska Institutet. The decision on where the ICMGP will be held will be announced at the ICMGP this summer.

### Haiyu Yan and Baolin Wang arrived to Uppsala

At the beginning of March Haiyu Yan and Baolin Wang settled in SLU in Uppsala to work within SMaReF



Haiyu works on the biogeochemical cycling of mercury in aquatic system, including the bioaccumulation of mercury in fresh water food web. During this term, she will focus on a comparative research of mercury bioaccumulation in food web of fresh aquatic system between China with Sweden.

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Baolin will do a comparison of mercury biogeochemistry in Swedish peatlands and paddies in Guiyang.



### Post-docs to be installed in Umeå

In the second half of April, the UmU-SLU mercury research axis (Björn-Skylberg) in Umeå will be refreshed by a number of new post-docs. Two post-docs (Gobtemi Adediran, 'Temi' at UmU, and Yu Song, 'Rain' at SLU) will join 'Tower' (at SLU and Southwestern University, Chongqing) in the SMaReF network. In a closely linked project (REACT) Wei Zhu, coming from CAS in Guiyang, is joining as a post-doc at UmU. This means that the UmU-SLU mercury research axis in Umeå will have in total four post-docs working closely together on Hg biogeochemistry. The projects will deal with the link between chemical speciation of Hg(II) and major transformation processes (reduction, methylation, demethylation) in soils, sediments and waters.

**Upper left: Tower**  
**Upper right: Wei**  
**Lower left: Temi**  
**Lower right: Rain**

### Workshop in Umeå

Erik Björn and Ulf Skylberg are organizing a one day workshop on April 27 with their newly installed post-docs at SLU and Umeå University (see previous announcement in this newsletter) and researchers within SMaReF. A preliminary program for this workshop is as follows:

10:00 – 10:45 Short outline of the four projects UmU-SLU Hg research axis

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(Skylberg-Björn)

10:45 – 11:00 Rain PhD work at CAS, China  
11:00 – 11:15 Wei PhD work at CAS, China  
11:15 – 11:30 Temi PhD work in the UK  
11:30 – 11:45 Tower PhD work at SWU, China  
11:45 – 12:30 Lunch  
12:30 – 13:00 Liem's ongoing PhD work on Hg biogeochemistry in wetlands  
13:00 – 13:15 Pianpian's ongoing PhD work  
13:15 – 13:30 Jingying's ongoing PhD work  
13:30 – 13:45 Andrea's work on MeHg photodegradation in lakes  
13:45 – 14:30 Coffe break  
14:30 – 14:45 Markus Meili  
14:45 – 15:00 Mats Nilsson  
15:00 – 16:00 Discussion on how to integrate projects in SMaReF (Kevin Bishop)

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### ICMGP 2015 is coming

12th International Conference on Mercury as A Global Pollutant (ICMGP 2015) will be held in Jeju, South Korea, 14-19 June. We look forward to seeing old and new connections there! SMaReF is planning a special trip to Guiyang, China, in advance of this biannual event. We will be visiting Chinese oldest and biggest mercury mining area, as well as a newly established forest research station, during a one-week period 6-12 June. Co-organized by our collaborators at SKLEG, it is expected to be a unique research workshop experience. Interested in participating the special trip? Please contact Kevin ([kevin.bishop@slu.se](mailto:kevin.bishop@slu.se)) or Pianpian ([pianpian.wu@slu.se](mailto:pianpian.wu@slu.se))

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### ASLO 2015 Aquatic Sciences meeting in Grenada

This year's Aquatic Sciences Meeting organized by ASLO (Association for the Sciences of Limnology and Oceanography) was successfully held in Granada, Spain. A special session on "Mercury biochemistry from headwaters to ocean", chaired by Ulf Skylberg and George Aiken, shed a spotlight on current Hg research subjects. Kevin, Markus, Andrea and Pianpian, representing some of the Swedish efforts in this research field, covered topics includes hydrological modelling of Hg flux, uncertainties in prediction of Hg and MeHg in stream water, DOC controlled Hg methylation, and Hg bioavailability at the base of the food chain. More about the session's talk can be found here:

<http://www.sgmeet.com/aslo/granada2015/sessionschedule.asp?SessionID=027>

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### Deadline for research grants at FORMAS

One important deadline for applications in Sweden is due on April 16 for research grants from Formas. The mission of Formas is to promote and support basic research and need-driven research in the areas Environment, Agricultural Sciences and Spatial Planning. There are good opportunities for cross-continental research projects and the SMAREF is one excellent platform for this.

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### New publications

(not a complete list of publications from partners in SMaReF)

Åkerblom, S., M. Meili, and K. Bishop. 2015. Organic Matter in Rain: An Overlooked Influence on Mercury Deposition. *Environmental Science & Technology Letters*: Article ASAP. doi:10.1021/acs.estlett.5b00009.

Jiang, T., U. Skjellberg, S. Wei, D. Wang, S. Lu, Z. Jiang, and D.C. Flanagan. 2015. Modeling of the structure-specific kinetics of abiotic, dark reduction of Hg(II) complexed by O/N and S functional groups in humic acids while accounting for time-dependent structural rearrangement. *Geochimica et Cosmochimica Acta* 154: 151-167.

Wiederhold, J.G., U. Skjellberg, A. Drott, M. Jiskra, S. Jonsson, E. Björn, B. Bourdon, and R. Kretzschmar. 2015. Mercury Isotope Signatures in Contaminated Sediments as a Tracer for Local Industrial Pollution Sources. *Environmental Science & Technology* 49: 177-185. doi:10.1021/es5044358.

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### Schedule of things to come in SMaReF

#### 2015

**8-12 June:** SMaReF All-Project meeting at CAS-SKLEG in Guiyang, China.

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**14-19 June:** ICMGP, Jeju, Korea. A whole week entirely dedicated to mercury including a SMaReF special session.

**17 August-24 August:** SMaReF PhD Course on Mercury Biogeochemistry. The course will be held in Umeå and is organised by Ulf Skjellberg and Andrea Garcia Bravo.

#### 2017

**June-July??:** ICMGP, New England, USA. The 13th edition of the International Conference on Mercury as a Global Pollutant.

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### Next newsletter

Planned to be released in May. We encourage you to send newly published Hg-related papers that also can be added to this newsletter.

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