

SMaReF

瑞中汞研究框架计划

newsletter: September-October 2014

Words from the leadership

Summer has come and almost gone here in Sweden, and with it the season for both field work, and vacations. With the return to the office, and the academic term, it is also time for us to focus on developing the SMaReF cooperation. The SMaReF Council has held its autumn meeting, with lots of plans for the future. One of those is concretizing the suggestions for advanced courses that the “younger generation” developed during the kickoff meeting. Another will be putting the machinery in place to allow Chinese students (and the designated guest professors) over to Sweden for extended periods. I will be doing my best to help implement these plans, but it is you (the readers of this newsletter) who are going to be making most of these plans happen. Please let me know if I can be of assistance in making just your hopes for SMaReF come true!

Kevin Bishop

Bimonthly newsletter

This is the second issue of the SMaReF newsletter. During the summer there has been time for vacation and summer activities but we have tried to keep us updated on what is going on.

CHEMSTRRES workshop

The parallel VR-funded project that focusses on contaminants in China, CHEMSTRRES had a workshop in Stockholm, September 8-12.

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Kevin Bishop was invited to have a presentation about SMaReF.

Within CHEMSTRRES Rui Wang (wangr@tongji.edu.cn) at Tongji University is working on Hg bioaccumulation in aquatic ecosystems together with Prof. Daqiang Yin. During a one day visit to Uppsala we had a meeting with Rui and presented the work going on within each respective project and discussed possibilities for future collaboration.



SMaReF webpage

We encourage you to visit the SMaReF webpage. Please provide suggestions on improvements and updates to keep the webpage more up to date: <http://www.slu.se/en/collaborative-centres-and-projects/smaref/>.

The 17th International Conference on Heavy Metals in the Environment (ICHMET204)

The 17th ICHMET is a continuation of a series of highly successful conferences held in major cities of the world since 1975. This edition of ICHMET will be held September 22-26 in Guiyang. Xinbin Feng being the

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conference chair of the conference and other partners from SKLEG is involved in the organization of the 17th ICHMET.

Mercury special session at the 2015 Aquatic Sciences Meeting

Association for the Sciences of Limnology & Oceanography (ASLO) organize their annual meeting in Grenada, Spain, 22-27 February. The conference title is: *Aquatic sciences: Global and regional perspectives-North meets south*. A special session about Hg is arranged by Ulf Skyllberg, George Aiken and David Krabbenhoft. The session is called: *Mercury Biogeochemistry from Headwaters to the Ocean*. Information about the conference and the special session can be found [here](#).

Abstract deadline is 10 October. For registration and submission of abstracts please visit the following link: <http://sgmeet.com/aslo/granada2015/submit/overview.asp>

Master projects at Uppsala University

Andrea Garcia Bravo is currently supervising three master students that will work within her and Stefan Bertilssons group at the Department of Limnology at Uppsala University.

Sonia Herrero Ortega will assess the role of the quality of organic matter versus electron acceptors and donors on microbial Hg methylation in recently flooded beaver

ponds. The second student, Hannes Gröntoft, will focus on the role of the quality of organic matter versus electron acceptors and donors on microbial Hg methylation in anoxic waters. The third, Torfi Geir Hilmarsson will calculate the demethylation constant rates in three Swedish lakes.

Land atmosphere exchange in Umeå

This summer Stefan Osterwalder (Basel University) developed the REA system at Degerö stormyr. Jonas Sommar (SKLEG) visited Umeå and Vindeln during June and July to cooperate and compare different systems of dynamic flux chambers for Hg evasion measurements on the mire. Beside working with the REA system and chambers they also explored the variability in DGM as well as total wet deposition of Hg at the mire.

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

Jonsson, S., U. Skyllberg, M.B. Nilsson, E. Lundberg, A. Andersson, and E. Björn. 2014. Differentiated availability of geochemical mercury pools controls methylmercury levels in estuarine sediment and biota. *Nature Communications* 5: 4624.

Li, W. C., Y. Ouyang, and Z. H. Ye. 2014. Accumulation of mercury and cadmium in rice from paddy soil near a mercury mine. *Environmental Toxicology and Chemistry*. doi: [10.1002/etc.2706](https://doi.org/10.1002/etc.2706)

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Meng, B., X. Feng, G. Qiu, C.W.N. Anderson, J. Wang, and L. Zhao. 2014. Localization and Speciation of Mercury in Brown Rice with Implications for Pan-Asian Public Health. *Environmental Science & Technology* 48: 7974-7981. doi:[10.1021/es502000d](https://doi.org/10.1021/es502000d).

Zhao, J., Y. Li, L. Yunyun., Y. Gao, B. Li, Y. Hu, Y. Zhao, and Z. Chao. 2014. Selenium modulates mercury uptake and distribution in rice (*Oryza sativa* L.), in correlation with mercury species and exposure level. *Metallomics*. doi:[10.1039/C4MT00170B](https://doi.org/10.1039/C4MT00170B)

newly published Hg-related papers that also can be added to this newsletter.

Send this to: Staffan.akerblom@slu.se

Funding opportunities

Marie Curie Research fellow:

http://ec.europa.eu/research/mariecurieactions/apply-now/open-calls/index_en.htm

Closing dates for application: 11 September and 2 October.

VINNMER Marie Curie Incoming

<http://www.vinnova.se/sv/Ansoka-och-rapportera/Utlysningar/Effekta/VINNMER-Marie-Curie-Incoming/>

Closing date for application: 16 September

The Swedish Research Council FORMAS:

<http://www.formas.se/en/>

No calls open now

Next newsletter

Planned to be released early November. Please send us a notice if you want to tell a news to all Hg-colleagues. We encourage you to send

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