

SMaReF

瑞中汞研究框架计划

newsletter: January-February 2015. Fourth issue

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More information about SMaReF:

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

Words from the leadership

Kevin Bishop

I was very pleased to visit Guiyang this December with Pianpian to keep up the momentum SMaReF has built up earlier in the year. 100+ new apartments for visiting researchers on CAS-SKLEG's great new campus in is a poignant indication of commitment to international cooperation. The warmth of the welcome was also a welcome contrast to the chill in the air. Best of all was the chance to meet the many

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colleagues and students keen on working with SMaReF's partners in Sweden. I am sure that all of you who will have a chance to come to SKLEG in June are going to have a great experience!

Important notice: Deadline for abstract submission to ICMGP 2015 extended to January 18.

Abstract submission for ICMGP opened on November 1 and have now been extended a second time and will close January 18. Time is running out on this and we encourage all SMaReF-participants to send in abstract to this important and good conference. We would especially like to bring your attention to the SMaReF special session: *Using contrasts to improve the understanding of mercury biogeochemistry*. This is a great opportunity to present current findings in your research.

Swedish research grant to Erik Björn.

We want to cast light on a project granted for 3 years by the Swedish research council FORMAS that has been awarded to Erik Björn titled:

Does climate change threaten fishery ecosystem services in the Baltic Sea via increased mercury contamination of biota?

The aim of the project is to elucidate, and understand the interaction between, key molecular level chemical processes and ecosystem level biological processes that

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control MeHg levels in pelagic biota. We will further try to establish how regional climate change scenarios may affect these processes in the Baltic Sea. In the project we will combine new analytical methods and lab experiments in micro and mesocosm scale, field studies and ecosystem modeling approaches. The project is a cooperation between chemists and ecologists at Umeå University, modeling experts at Stockholm University and chemists at Pau University in France.

Grant approved to Norwegian-Swedish-Canadian research program.

Yet another research grant has been approved where Staffan Åkerblom is one of the coapplicant. The project is funded by the Research Council of Norway and this project is a joint Norwegian-Swedish-Canadian project named:

Climatic, abiotic and biotic drivers of mercury in freshwater fish in northern ecosystems (Climer).

The project is funded over 3 years and the primary aim is to assess risks of elevated Hg in fish in boreal and subarctic lakes under interactions of climate change and deposition, and assess implications for ecosystem function from a toxicological and fisheries perspective.

PhD course in Sweden, August 2015

Ulf Skjellberg and Andrea Garcia Bravo organize the first SMaReF PhD course that will be held in Umeå between 17-24 August. We encourage PhD-students to put these dates in the calendar to be able to attend the course.

New publications

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

Åkerblom, S., A. Bignert, M. Meili, L. Sonesten, and M. Sundbom. 2014. Half a century of changing mercury levels in Swedish freshwater fish. *Ambio* 43: 91-103.

Liem-Nguyen, V., S. Bouchet, and E. Björn. 2014. Determination of Sub Nanomolar Levels of Low Molecular Mass Thiols in Natural Waters by Liquid Chromatography Tandem Mass Spectrometry after Derivatization with p (Hydroxymercuri) Benzoate and Online Preconcentration. *Analytical Chemistry*. doi:10.1021/ac503679y.

Xu, J., A. Garcia Bravo, A. Lagerkvist, S. Bertilsson, R. Sjöblom, and J. Kumpiene. 2014. Sources and remediation techniques for mercury contaminated soil. *Environment International* 74: 42-53. doi:10.1016/j.envint.2014.09.007.

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Schedule of things to come in SMaReF

2015

3 February: SMaReF steering committee meeting.

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

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 Skyllberg and Andrea Garcia Bravo.

2017

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

Next newsletter

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

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