

SMaReF

瑞中汞研究框架计划

newsletter: December 2015-March 2016. 8th issue

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Words from the leadership

What a year it has been with SMaReF! The visit to Guiyang and the Wanshan mining area, The ICMGP, and the course in Umeå! Just as important as these big events though are the actual projects and individual exchanges that have started up in the background. For 2016 and onwards it will be such focussed activities that will play a bigger role in SMaReF, even though educational activities like the May Ecotox will continue to be arranged. Now, though it is time to enjoy our respective holiday seasons in Sweden and China!

Season's Greeting!

Kevin

ECOTOX workshop in China in May: Joint workshop between SMaReF and CHEMSTREES

The Sino-Swedish Mercury Management Research Framework, in cooperation with "Swedish-Chinese chemical pollution stress

and risks research program in the Yangtze river delta region" invite applications from PhD students and other interested researchers to a workshop led by Dr. Martin Kainz on the "Principles of Aquatic Ecotoxicology and food webs". In this course we will learn and work on how to combine aquatic food web processes with environmental toxicology. This will be held at Tongji University in Shanghai between May 9 and 16. Invitation and contact information will be announced soon.

Next newsletter

Planned for release in March 2016. We encourage you to send newly published Hg-related papers that also can be added to this newsletter.

Send this to: Staffan.akerblom@slu.se

New publications

Levanoni, O. Bishop, K. Mckie, B. G. Hartman, G. Eklöf, K. and Ecke, F. (2015) Impact of Beaver Pond Colonization History on Methylmercury Concentrations in Surface Water. *Environmental Science & Technology*. 49, (21), 12679-12687. doi: 10.1021/acs.est.5b03146

Wang, X. Zhang, H. Lin, C.-J. Fu, X. Zhang, Y. and Feng, X. (2015) Transboundary transport and deposition of Hg emission from

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springtime biomass burning in the Indo-China Peninsula. *Journal of Geophysical Research-Atmospheres* 120, (18), 9758-9771. doi: 10.1002/2015JD023525

Yu, B. Wang, X. Lin, C.-J. Fu, X. Zhang, H. Shang, L. and Feng, X. (2015) Characteristics and potential sources of atmospheric mercury at a subtropical near-coastal site in East China. *Journal of Geophysical Research-Atmospheres* 120(16), 8563-8574. doi: 10.1002/2015JD023425

Schedule of things to come in SMaReF

2015

December: Quangle Qiu will return to China after his first stay at the Limnology Department in Uppsala

2016

February 15: SMaReF steering committee meeting

March 1: SMaReF council meeting

May 9-16: Principles of Aquatic Ecotoxicology and food webs in Shanghai

May 17: SMaReF steering committee meeting

June 13: SMaReF council meeting

2017

July 16-21, Providence, Rhode Island, USA. The 13th edition of the International Conference on Mercury as a Global Pollutant.

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SMaReF workpackages (WP) and ongoing exchanges

WP A: Land-air exchange – In and out of the landscape

Leading group
Xinbin Feng
Mats Nilsson
Jonas Sommar
Kevin Bishop

Exchanges

Name (home university)	Receiving university / city	Project	Academic level	Project management	Start date – end date	Contact
Stefan Osterwalder (Basel University)	Basel University	Land-air exchange of Hg in boreal peat lands	PhD student	Kevin Bishop / Mats Nilsson		Kevin.bishop@slu.se

WP B: Methylation: Synergistic effects

Leading group
Ulf Skjällberg
Guangle Qiu
Mats Nilsson
Stefan Bertilsson

Exchanges

Name (home university)	Receiving university (city)	Project	Academic level	Project management	Start date – end date	Contact
Guangle Qiu (SKLEG)	Uppsala University / Uppsala	Hg methylating bacteria community in Chinese rice paddy field	Professor	Kevin Bishop, Stefan Bertilsson	2015-09-01 – 2015-12-15	Kevin.bishop@slu.se
Xiaohang Xu (SKLEG)	Uppsala University / Uppsala	Hg methylating bacteria community in Chinese rice paddy field	PhD student	Kevin Bishop, Stefan Bertilsson	2015-09-01 – 2015-12-15	qiuguangle@vip.skleg.cn
Baolin Wang	Swedish University of Agricultural Sciences / Uppsala	Hg methylating bacteria community in Swedish peatlands	PhD	Kevin Bishop, Stefan Bertilsson	2015-03-01 -	Kevin.bishop@slu.se
Gobtemi Adediran (The University of Edinburgh)	Swedish University of Agricultural Sciences / Umeå	Mechanisms of uptake and methylation of Hg by anaerobic bacteria	Post doc	Erik Björn	2015-05-01 -	erik.bjorn@umu.se
Yu Song (Institute of Applied Ecology, CAS)	Swedish University of Agricultural Sciences / Umeå	Kinetics and thermodynamics of Hg chemical speciation in organic matter dominated soils and sediments	Post doc	Ulf Skjällberg	2015-05-01 -	Ulf.skjallberg@slu.se
Wei Zhu (SKLEG)	Umeå	Transformations of	Post doc	Erik Björn, Ulf	2015-05-01 -	erik.bjorn@umu.se

Contact: Staffan Åkerblom (staffan.akerblom@slu.se)
Swedish University of Agricultural Sciences, Department of Aquatic Sciences and Assessment

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	University / Umeå	Hg/MeHg in contaminated fiber sediments		Skyllberg		
Tao Jiang (Southwest University)	Umeå University / Umeå	Redoxproperties of natural organic matter and influence on Hg/meHg transformations	Post doc	Ulf Skyllberg	2015-05-01 -	Ulf.skyllberg@slu.se

WP C: Entry into the food chain – When to intervene

Leading group

Erik Björn
Jiubin Chen
Giangle Qiu
Markus Meili
Haiyu Yan

Exchanges

Name (home university)	Receiving university (city)	Project	Academic level	Project management	Start date – end date	Contact
Haiyu Yan (SKLEG)	Swedish University of Agricultural Sciences / Uppsala	Hg bioaccumulation in freshwater ecosystem	Professor	Kevin Bishop	2015-07-01 – 2015-10-01	Kevin.bishop@slu.se
Kasun Abeysinghe (SKLEG)	SKLEG	Hg bioavailability and bioaccumulation in terrestrial ecosystems	Master student	Guangle Qiu	2014-06-01 -	qiuguangle@vip.skleg.cn
Zhidong Xu (SKLEG)	SKLEG	Hg bioavailability and bioaccumulation in terrestrial ecosystems	Master student	Guangle Qiu	2014-09-01 -	qiuguangle@vip.skleg.cn
Pianpian Wu	Swedish University of Agricultural Sciences / Uppsala	Hg bioavailability and bioaccumulation in freshwater ecosystems	PhD student	Kevin Bishop / Staffan Åkerblom	2013-10-01 -	Pianpian.wu@slu.se

WP D: Remediation – When it is to late

Leading group

Ulf Skyllberg
Xinbin Feng
Erik Björn
Jiubin Chen

Contact: Staffan Åkerblom (staffan.akerblom@slu.se)
Swedish University of Agricultural Sciences, Department of Aquatic Sciences and Assessment

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Stefan Bertilsson

Exchanges

<i>Name (home university)</i>	<i>Receiving university (city)</i>	<i>Project</i>	<i>Academic Level</i>	<i>Project management</i>	<i>Start date – end date</i>	<i>Contact</i>
Wei Zhu (SKLEG)	Umeå University	Transformations of Hg/MeHg in contaminated fiber sediments	Post doc	Erik Björn / Ulf Skyllberg	2015-05-01 -	erik.bjorn@umu.se