

Hydrological Sciences Division Meeting

Elena Toth

EGU 2016 GA, Vienna | April 21, 2016



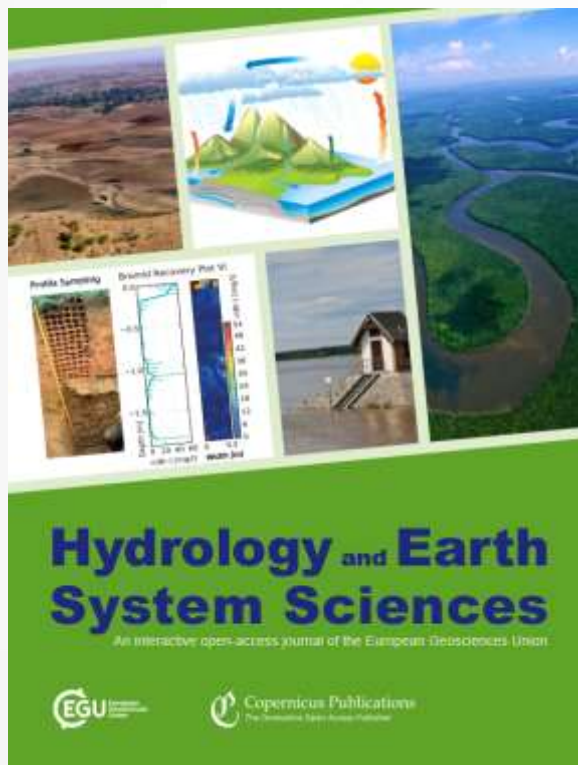
Meetings | Publications | Outreach | www.egu.eu

Agenda

- 1. Hydrology and Earth System Sciences Journal: report + awards**
- 2. General Assembly 2016**
- 3. HS Officers**
- 4. Young Hydrological Society**
- 5. Outstanding Student Posters and PICOs: report + awards**
- 6. Outstanding Young Scientist Award**
- 7. Division Medals Winners**
- 8. Medal Committees 2017**
- 9. Leonardo and Galileo Conferences**
- 10. Communication and Outreach at Union Level**
- 11. Any other business**

Hydrology and Earth System Sciences Journal: report + awards

“the” EGU Hydrological Sciences Division Journal

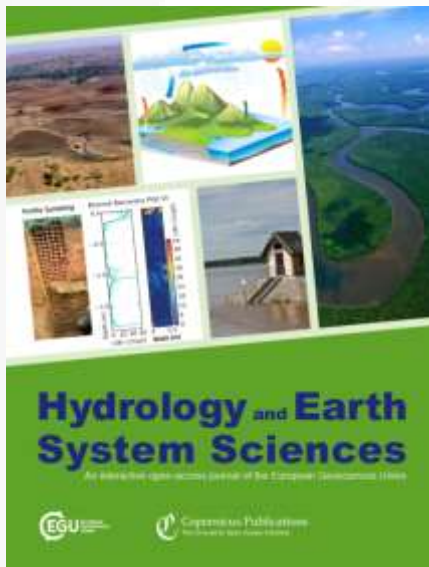


Executive Editors:

Erwin Zehe, Alberto Guadagnini,
Alison D. Reeves, Hubert Savenije

Hydrology and Earth System Sciences Journal: report + awards

“the” EGU Hydrological Sciences Division Journal

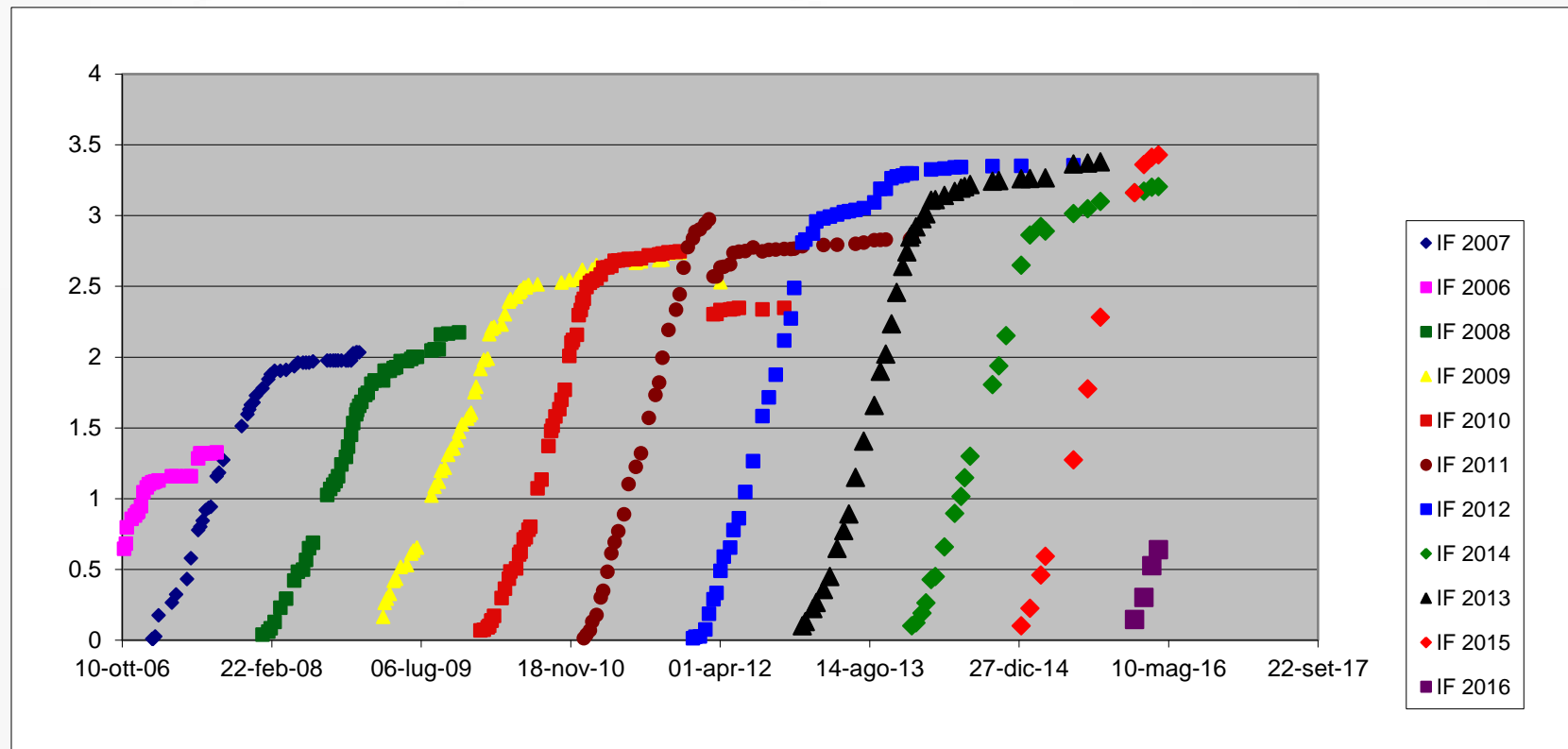


Outgoing Executive Editor:

Our warmest thanks to
Hubert Savenije



- 73 topical editors
- In 2015 published:
 - 539 papers in HESSD (- 1.8 %),
 - 1800 comments in HESSD (3.3/pap)
 - 307 papers in HESS (- 9%)
 - 57% acceptance rate
- 22 d median time to publication in HESSD
- Impact factor 2014: 3.535
- Impact factor 2015: expected 3.6 +

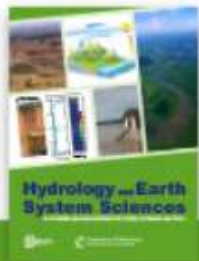


2015 HESS OUTSTANDING EDITOR AWARD



Dr. Mauro Giudici

In recognition of his excellent service
as Editor of
Hydrology and Earth System Sciences
in the period 2015 - 2016



Hydrology and Earth System Sciences

An interactive open-access journal of the European Geosciences Union

| EGU.eu | [EGU Journals](#) | [Contact](#) | [Imprint](#) |

Hydrology and Earth System Sciences (HESS)

2015 JIM DOOGE AWARD

for the two most outstanding papers of HESS in 2015

The European Geosciences Union

presents the

"Jim Dooge Award"

to

**Martínez-Carreras, N., Wetzel, C. E., Frentress, J., Ector, L., McDonnell,
J. J., Hoffmann, L., and Pfister, L.**

**for their outstanding paper in
'Hydrology and Earth System Sciences' in 2015.
HESS, 19, 3133-3151, 2015**

Signed April 2016

Erwin Zehe
Chief Executive Editor
of "Hydrology and Earth System Sciences"



Signed April 2016

Elena Toth
President
of the Hydrological Sciences Division of the EGU



Hydrological connectivity inferred from diatom transport through the riparian–stream system

N. Martinez-Carreras¹, C. E. Wetzel¹, J. Frentress¹, L. Ector¹, J. J. McDonnell^{2,3}, L. Hoffmann¹, and L. Pfister¹

¹Luxembourg Institute of Science and Technology, Department Environmental Research and Innovation, Belvaux, Luxembourg

²Global Institute for Water Security, University of Saskatchewan, Saskatoon, Canada

³School of Geosciences, University of Aberdeen, Aberdeen, Scotland, UK

Correspondence to: N. Martinez-Carreras (nuria.martinez@list.lu)

Received: 20 January 2015 – Published in Hydrol. Earth Syst. Sci. Discuss.: 24 February 2015

Revised: 16 June 2015 – Accepted: 17 June 2015 – Published: 16 July 2015

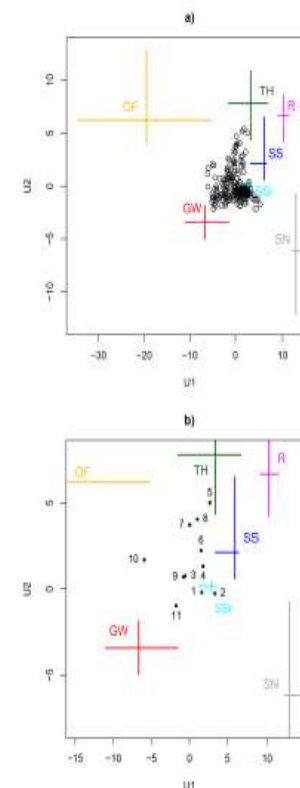


Figure 7. (a) U1–U2 mixing diagram of stream water tracers (black circles; AS + SW in Fig. 5) and (b) zoom into the U1–U2 mixing diagram showing event peakflow stream water samples (black squares; numbers identify storm events in Fig. 2). Sampling points data plotted in Fig. 5 were grouped into seven end-members and the interquartile ranges of each end-member were projected into the new mixing space (U space; GW: groundwater; SN: snow; SS: soil water; SSr: soil water from the riparian zone; OF: overland flow; R: rainfall; TH: throughfall). Because (b) is a zoom into the U1–U2 mixing diagram, the interquartile ranges of some end-members are not fully represented.

2015 JIM DOOGE AWARD

The European Geosciences Union

presents the

"Jim Dooge Award"

to

Srinivasan, V., Thompson, S., Madhyastha, K., Penny, G., Jeremiah, K., and Lele, S.

**for their outstanding paper in
'Hydrology and Earth System Sciences' in 2015.
HESS, 19, 1905-1917, 2015**

Signed April 2016

Erwin Zehe
Chief Executive Editor
of "Hydrology and Earth System Sciences"



Signed April 2016

Elena Toth
President
of the Hydrological Sciences Division of the EGU



Why is the Arkavathy River drying? A multiple-hypothesis approach in a data-scarce region

V. Srinivasan¹, S. Thompson², K. Madhyastha¹, G. Penny², K. Jeremiah¹, and S. Lele¹

¹Ashoka Trust for Research in Ecology and the Environment, Royal Enclave Srirampura, Jakkur Post, Bangalore, Karnataka, India

²Department of Civil and Environmental Engineering, University of California, Berkeley, Berkeley, California, USA

Correspondence to: V. Srinivasan (veena.srinivasan@atree.org)

Received: 16 November 2014 – Published in Hydrol. Earth Syst. Sci. Discuss.: 6 January 2015

Revised: 20 March 2015 – Accepted: 20 March 2015 – Published: 22 April 2015

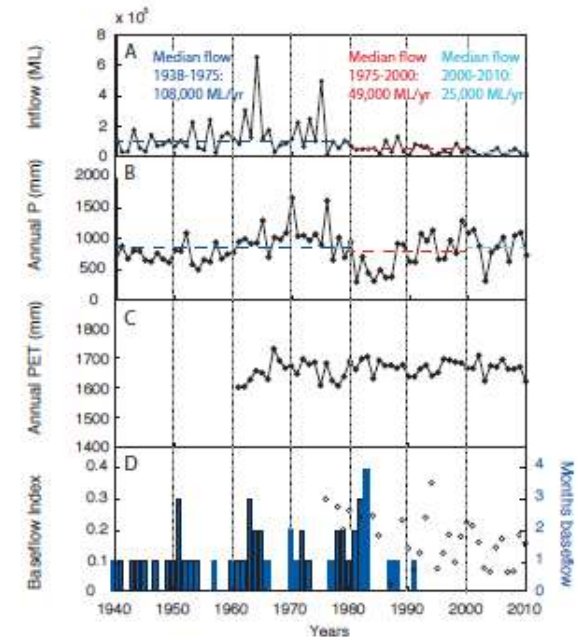
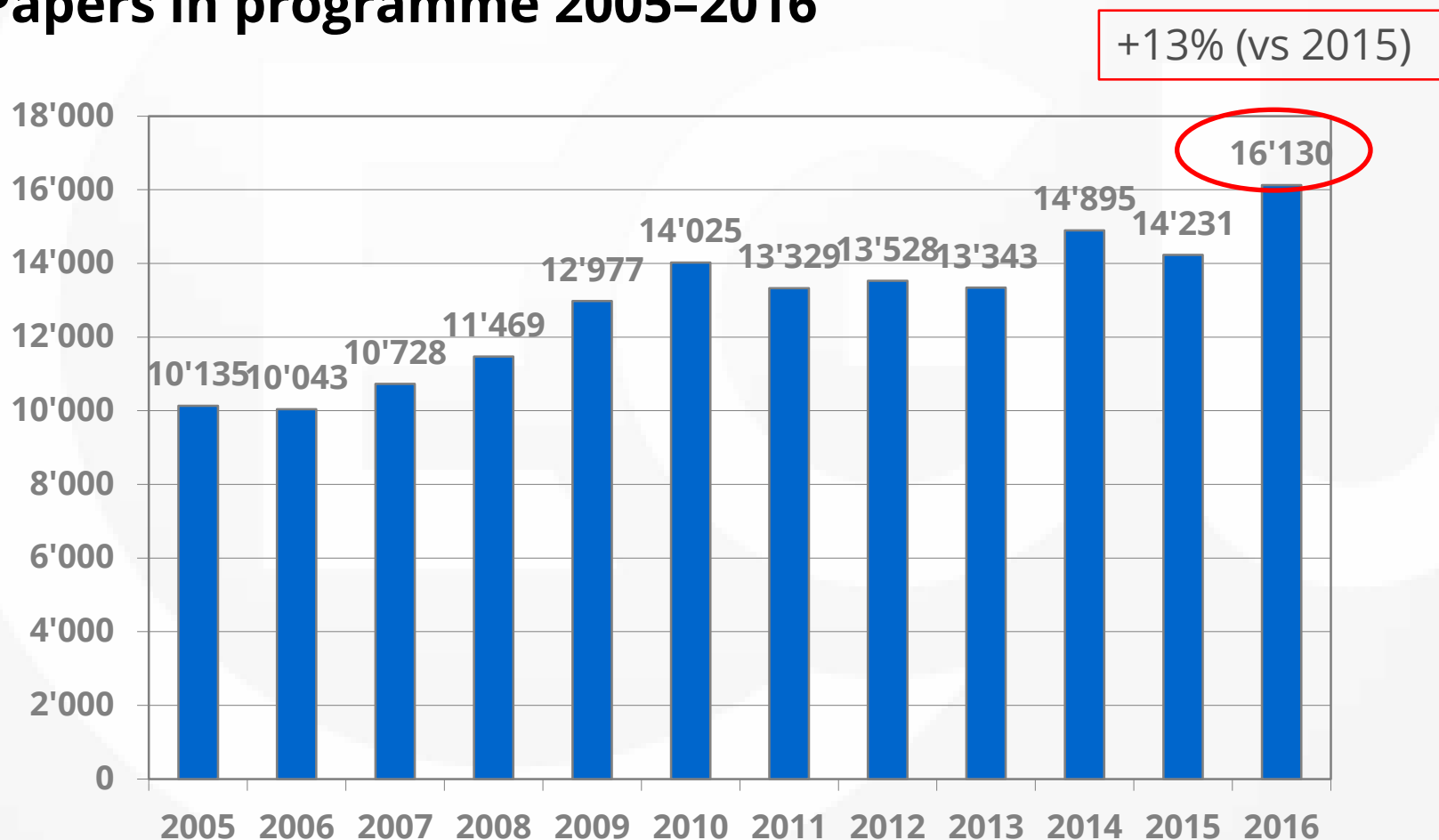


Figure 2. Changes in hydrology and hydrometeorology of the Arkavathy Basin, 1970–2010. (a) Annual inflows into the TG Halli reservoir. The 1938–1975, 1975–2000 and 2000–2010 median and mean annual inflows illustrate the decline in inflow that has occurred in recent decades. (b) Areal averaged annual rainfall over the seventh taluk (local government areas) comprising the TG Halli catchment. Potential evapotranspiration as estimated from the Hargreaves equation for the TG Halli catchment. (d) Two estimates of baseflow contribution to the TG Halli inflows: the number of months/year when 100 % of flow was derived from baseflow (bars) and the baseflow index computed from daily inflow data (dots).

2015 JIM DOOGE AWARD

General Assembly 2016

Papers in programme 2005–2016



GA 2016 – Hydrological Sciences Programme numbers

2092 'active' abstracts (+10% vs 2015)

submitted to 80 HS-lead sessions (HS is the leading Division)

13% of total EGU GA submissions (12.5% in 2015)

12 PICO 1.5 h blocks (15% of all the available PICO blocks)

103 Oral 1.5 h blocks

Meetings of the SubDivision Committee (public)

Catchment hydrology	Wed 12.15-13.15	Room 2.44
Hydroinformatics	Thu 17.00	Room 2.20
Hydrological forecasting	Mon 12.15-13.15	Room 2.17
Water Policy & management	Mon 12.00-12.30	Room C
Remote sensing & data assimilation	Fri 10.00-10.30	Room 2.44
Precipitation & climate	Thu 20.30 (dinner)	Restaurant Rebuhn*
Groundwater	Wed 12.15-13.15	Room 2.43
Unsaturated zone	Wed 13.30-15:00	Room 2.17
Erosion, sedimentation & river processes	Thu 9.00-10.00	Room 2.42
Ecohydrology, wetlands and estuaries	Fri 12.15-13.15	Room 2.42

Outgoing SubDivision Chairs

- Erosion, sedimentation & river processes:

Marcel van der Perk



- Groundwater:

Peter Bayer



- Water Policy & management

Wouter Buytaert



HS Officers: SubDivision Chairs

Catchment hydrology: **Bettina Schaefli**



Erosion, sedimentation & river processes:
Hugh Smith



Estuaries, wetlands & eco-hydrology:
Josie Geris



HS Officers: SubDivision Chairs

Groundwater: **Monica Riva**



Hydroinformatics: **Dimitri Solomatine**



Hydrological forecasting:
Maria-Helena Ramos



HS Officers: SubDivision Chairs

Precipitation & climate: **Chris Onof**



Remote sensing & data assimilation: **Annett Bartsch**



HS Officers: SubDivision Chairs

Unsaturated zone: **Martine van der Ploeg**



Water Policy & management: **Andrea Castelletti**



My proposal is to confirm:

as Deputy President: **Laurent Pfister**



as OSPP Coordinators:

Ilja van Meerveld and Julian Klaus



HS Officers

New Outreach and Communication Division Committee

Laurent Pfister



Wouter Berghuijs



Maria-Helena Ramos



Miriam Coenders



Young Hydrological Society

An initiative developed by a group of young colleagues who are creating a platform within HS for young/early-career scientists.

**EGU Early Career Scientist
Representative for the Hydrological
Sciences**

elected by the young scientist
members of the HS division



Shaun Harrigan

Centre for Ecology & Hydrology (CEH)

shauhar@ceh.ac.uk

MONDAY 18, 15.30 – 17.00

PICO SPOT 1

HS1.2 Hydrology Pop-Ups: Sharing failures, lessons learned and new ideas (PICO) –
5 min presentations with interactive discussion

TUESDAY 19, 15.30 – 19.00

ROOM -2.61

SC38/HS11.47 Hydroinformatics for hydrology: introduction to data science including data assimilation – *Short course by Dr. Ghada El Serafy (Deltares)*

WEDNESDAY 20, 09.00 – 12.00

ROOM -2.85

SC31/HS11.43 Teaching hydrology – *Workshop with Prof. Jan Seibert (University of Zurich)*

TUESDAY 19, 17.30 – 19.00

ROOM 2.44

SC35/HS11.45 How to write review a scientific paper in hydrology –
Short course by Prof. Andr s B rdossy, Prof. Erwin Zehe & Prof. Axel Kleidon

TUESDAY 19, 12.15 – 13.15

WEDNESDAY 20, 12.15 – 13.15

ROOM -2.85

SC27/EOS16 Rhyme-your-research I – COMPOSITION
SC28/EOS17 Rhyme-your-research II – PERFORMANCE

THURSDAY 21, 17.30 – 19.00

ROOM 2.44

SC34/HS11.44 Meet the expert in hydrology –
How do you work multi-, inter-, and/or transdisciplinary?
And what are the differences? – *Discussion with Prof. Doerthe Tetzlaff, Dr. Albrecht Weerts, and Dr. Tobias Krueger*

**New item added during the meeting: presentation of
Communicate your Science Video Competition
by Yvonne Smith «How do dunes form» and advertising to vote her video!**

Outstanding Student Poster and PICO: report + awards

Rewards the best posters of young scientists (graduate students and recently completed PhDs)

- Coordinators: Ilja van Meerveld, Julian Klaus + *Andreas Güntner (EGU)*
- 271 posters and PICOs (21) in the competition (2015: 143, 2014: 377; 2013: 85; 2012: 184)
- 73 sessions (2015: 59)

Outstanding Student Poster and PICO Awards

Criteria for Application

Eligible for the Outstanding Student Poster and PICO (OSPP) Awards are students that:

1. are first author and personally present the poster or PICO at the conference;
2. satisfy one of the following criteria:
 - are a current undergraduate (e.g., BSc) or postgraduate (e.g., MSc, PhD) student;
 - are a recent undergraduate or postgraduate student (conferral of degree after 1 January of the year preceding the conference) who are presenting their thesis work.

Important: Difference between Early Career Scientist status (student or a scientist who has received his or her highest degree [BSc, MSc, or PhD] within the past seven years + parental leaves) **and OSPP eligibility!**

Outstanding Student Poster and PICO: report + awards

Procedure for participating

- (PhD-) students need to actively register (only 1 Poster/PICO per year)
- 3 judges per poster
- Criteria: scientific quality, presentation, and discussion
- Top 1-5 of the ranked posters win the OSP Award (depending on number of posters in competition)

Outstanding Student Poster and PICO: report + awards

Benefits of participating:

- 3 judges per poster come to talk to you
- Feedback on poster

If you win:

- short presentation on the EGU website
- conference fee waived for the next GA
- when the work is subsequently published in HESS, the page charges will be waived

Outstanding Student Poster and PICO : report + awards

Procedure for poster assessment

New online system:

- Conveners ask and assign judges
- Judges automatically receive email and link to the assessment form
- Judges can deny the nomination directly online (new this year)
- Judges fill in assessment form or upload assessment directly

Reminder for good scientific practice: when nominating judges please avoid any conflict of interest

Outstanding Student Posters Poster and PICO: report + awards

The 2015 OSP winners

Christoph Ritschel

Intensity-Duration Relation in the Bartlett-Lewis Rectangular Pulse Model



Janek Dreibrodt

Species specific temporal patterns of throughfall and stemflow in deciduous and coniferous forests with implications for unsaturated zone and groundwater recharge processes



Michael Stoelzle

Improved baseflow characterization in mountainous catchments

Outstanding Young Scientist (and Arne Richter) Award

The 2015 HS Arne Richter Award for
Outstanding Young Scientists at EGU level to

Dr. Kaveh Madani

for his fundamental contributions to integrating
game-theory and decision-analysis into water
management models.

Award lecture delivered on Monday in session
HS5.6



Division Medal winners



The 2016 Henry Darcy Medal is awarded to

Yoram Rubin

for seminal work in stochastic groundwater hydrology, parameter estimation and hydrogeophysics and for developing tools that enabled practitioners to make operational decisions based on data.

Darcy Medal Lecture: Tue 19 April

The 2016 John Dalton Medal is awarded to

Harry Vereecken

for groundbreaking contributions on hydrogeophysics, pedotransfer functions and transport in heterogeneous media, for initiating a network of hydrological observatories, and for outstanding service.

Dalton Medal Lecture

**Today (Thu 21 April) 19.00-20.00, Room
B**



Medal Committees

The committees that select the Dalton and Darcy Medallists need a formal approval by this body.

- **Dalton Medal Committee:**

- Gerrit de Rooij (Chair)
- Harry Vereecken
- Diane McKnight
- Hoshin Gupta
- Michael Roderick
- (Ex-officio: Elena Toth)

Medal Committees

The committees that select the Dalton and Darcy Medallists need a formal approval by this body.

- **Darcy Medal Committee:**

- Gerrit de Rooij (Chair)
- Yoram Rubin
- Nick van de Giesen
- Upmanu Lall
- Georgia Destouni
- (Ex-officio: Elena Toth)

Please propose candidates for the awards/medals!!!

For the Outstanding Young Scientists Award / Arne Richter Award for Outstanding Young Scientists (**deadline 15th June 2016**)

Nomination letter (1/2 page)

Curriculum Vitae. A summary of the candidate's CV (1 page)

Selected bibliography. A list of selected publications by the candidate that best support the nomination (1/2 page). It should also state briefly the candidate's total number and types of publications and citations.

The whole nomination package for the Outstanding Young Scientists Award / Arne Richter Award for Outstanding Young Scientists must not exceed 2 pages.

If you need help in the nomination process, ask for the advice of our SubDivision Chairs

Ourense (Spain), Oct 25-27, 2016

Deadline for abstract submission: June 15, 2016

<http://ephyslab.uvigo.es/eguleonardo2016/>

**From evaporation to precipitation:
the atmospheric moisture transport**

8th EGU LEONARDO CONFERENCE
Ourense, Spain
25-27 October 2016



Welcome

Scope

Organizing Committee

Venue / Conference Center

Program Overview

Submitting an Abstract

Welcome

The "EGU Leonardo Topical Conference Series on the Hydrological Cycle" is the forum that EGU provides for scientific discussions focused on specific topics around the Hydrological Cycle.

This year's topic is devoted to the Atmospheric Branch of the Hydrological Cycle involving all aspects from evaporation to precipitation.

Leonardo Conference 2017

IX Leonardo Conference on the Hydrological Cycle

Topical conference series run by HS

Small: 80-120 participants

In the fall, every year

Financial support provided by EGU

Expression of interest for 2017 to Alberto Montanari
(alberto.montanari@unibo.it)

BY MAY 15, 2016

Purpose of Galileo conferences:

- Bring together up to 100 participants for a 3-5 days meeting to discuss a well-focused cutting-edge topic at the frontier of geosciences research.
- Possibility to publish a special Galileo Conference proceeding issue in one of the EGU journals

Support:

- EGU provides conference organization tools and comprehensive organisational support (e.g. venue, poster boards, catering, Wi-Fi, etc), support for Early Career Scientists (up to 5000€) and covers a potential deficit of the event.

Current submission procedure: applications may be submitted at any time of the year. Minimum of 4 months needed for processing the proposals, but better submit well in advance!

Galileo Conferences are expected to take place within the 12 months of final approval.

EGU Public engagement grants: awarded to EGU members interested in developing an outreach project that aims to raise awareness of geosciences outside the scientific community.

Two projects will each be awarded a grant of €1000 to help further develop the idea and put it into practice.

Applications for 2017 are welcome (from nov to feb) at:

<http://www.egu.eu/user-area/peg/>.

Expertise database; the new Science Policy Fellow, Sarah Connors, asks EGU members who want to become more involved with policy to register on the new EGU expertise database

www.egu.eu/policy/expertise

Database to identify expertise within the Union that can be called upon to respond to events of geoscientific relevance. The EGU's database of expertise allows its members to be updated with the current opportunities to share their scientific knowledge.

Contact email: policy@egu.eu; Website: www.egu.eu/policy

Communication Activities at the General Assembly

EGU Today

- EGU Today is a daily newsletter highlighting interesting workshops, lectures and GeoCinema screenings, amongst activities at the Assembly
- Paper copies will be distributed daily and are available to download at **www.egu2016.eu/egu_today**

Blogs

- GeoLog, the EGU Blog Network & EGU Division Blogs will be sharing great sessions, research, interviews and more throughout the Assembly
- Follow them at **geolog.egu.eu** and **blogs.egu.eu**

Social Media

- Sessions will be advertised on Twitter (@**EuroGeosciences**) and Facebook (**European Geosciences Union**)
- Participants can ask questions & keep updated by following **#EGU16**

www.egu2016.eu/feedback

- Distribution:
 - via email to participants and EGU members after GA
 - links on social media & blog
 - egu2016.eu website
 - Flyers/cards in Vienna
- Survey live during GA and until mid June



15. Any other business

EGU General Assembly 2017

Vienna, Austria
23–28 April 2017

EGU General Assembly 2018

Vienna, Austria
08–13 April 2018

EGU General Assembly 2019

Vienna, Austria
07–12 April 2019