

A short introduction to the



**Young
Hydrologic
Society**

**Caroline Aubry-Wake,
Canadian Young Hydrologic Society
Executive Committee**

Canmore, May 2018

About



- A bottom-up initiative to stimulate the interaction and active participation of ***young hydrologists*** within the hydrological scientific community.
- What is a “***young hydrologist***”?



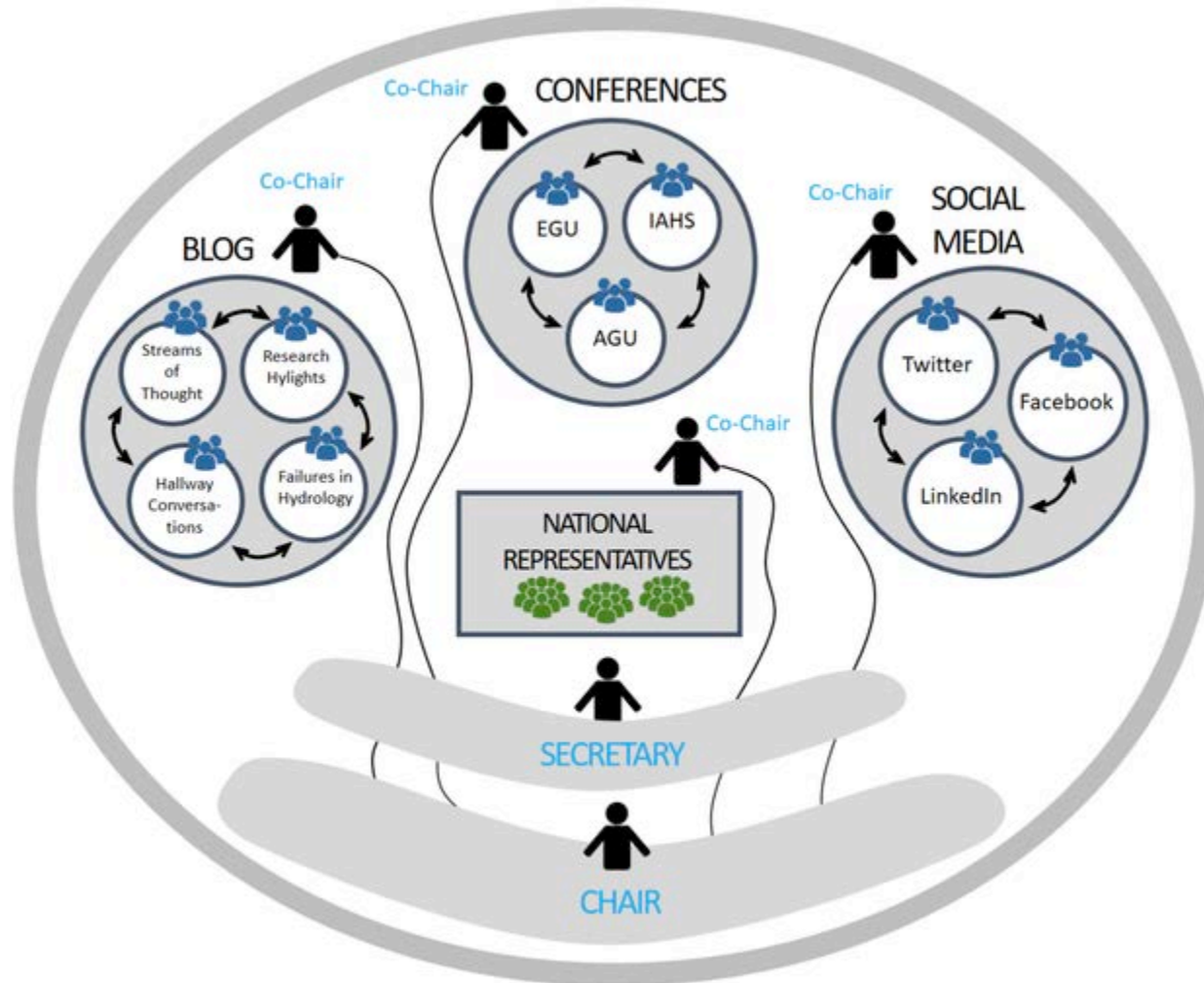
Anybody that thinks that he or she can benefit from and/or contribute to the YHS, that focuses on the **early career (MSc, PhD, Post-Doc) hydrological scientific community**, but is not strictly limited to.

Objectives



- **Facilitate** connections among hydrologists early in their careers
- **Organize** events to enhance the professional development of early-career hydrologists
- **Provide** a central information platform for early-career hydrologists
- **Create** awareness of current and future research topics within hydrology
- **Make** the scientific community more accessible to early-career hydrologists
- **Stimulate** Early Career leadership at relevant organizations

Structure



Team



Board (2016-2017)

Chair: Nilay Dogulu (Middle East Technical University, Ankara)
Co-chair: Wouter Berghuijs (ETH Zürich)
Secretary: Harsh Beria (University of Lausanne)
Member: Andrea Popp (Eawag)

Board (2015-2016)

Chair: Wouter Berghuijs (University of Bristol)
Co-chair: Tim van Emmerik (Delft University of Technology)
Secretary: Nilay Dogulu (Middle East Technical University, Ankara)

Website

Maarten Smoorenburg (Deltares)
Shaun Harrigan (Centre for Ecology & Hydrology)
Marius Floriancic (ETH Zürich)

Streams of Thought, Hallway Conversations, Research “Hylights”

Nilay Dogulu (Middle East Technical University, Ankara)
Kevin Roche (Northwestern University)
Wouter Berghuijs (ETH Zürich)
Tim van Emmerik (Delft University of Technology)
Adam Wlostowski (University of Colorado)
Maarten Smoorenburg (Deltares)

EGU session organizers

Hannes Müller (Leibniz Universität Hannover)
Ina Pohle (Brandenburgische Technische Universität Cottbus)
Maarten Smoorenburg (Deltares)
Shaun Harrigan (Centre for Ecology & Hydrology)
Marius Floriancic (ETH Zürich)
Wouter Berghuijs (University of Bristol)
Tim van Emmerik (Delft University of Technology)
Nilay Dogulu (Middle East Technical University, Ankara)
Claudia Teutschbein (Uppsala University)
Lieke Melsen (Wageningen University)
Wouter Knoben (University of Bristol)
David Wright (University of Adelaide)

AGU H3S committee

Evan Kipnis (Chair) (University of Utah)
Niels Claes (Co-Chair) (University of Wyoming)
Sheila Saia (Cornell University)
Natasha Krell (Princeton University)
Kevin Roche (Northwestern University)
Adam Wlostowski (University of Colorado at Boulder)
Harsh Beria (Indian Institute of Technology at Kharagpur)
Vanessa Garayburu Caruso (University of New Mexico)
Allison Goodwell (University of Illinois at Urbana-Champaign)
Chelsea Morris (Cornell University)
Emily Voytek (Colorado School of Mines)

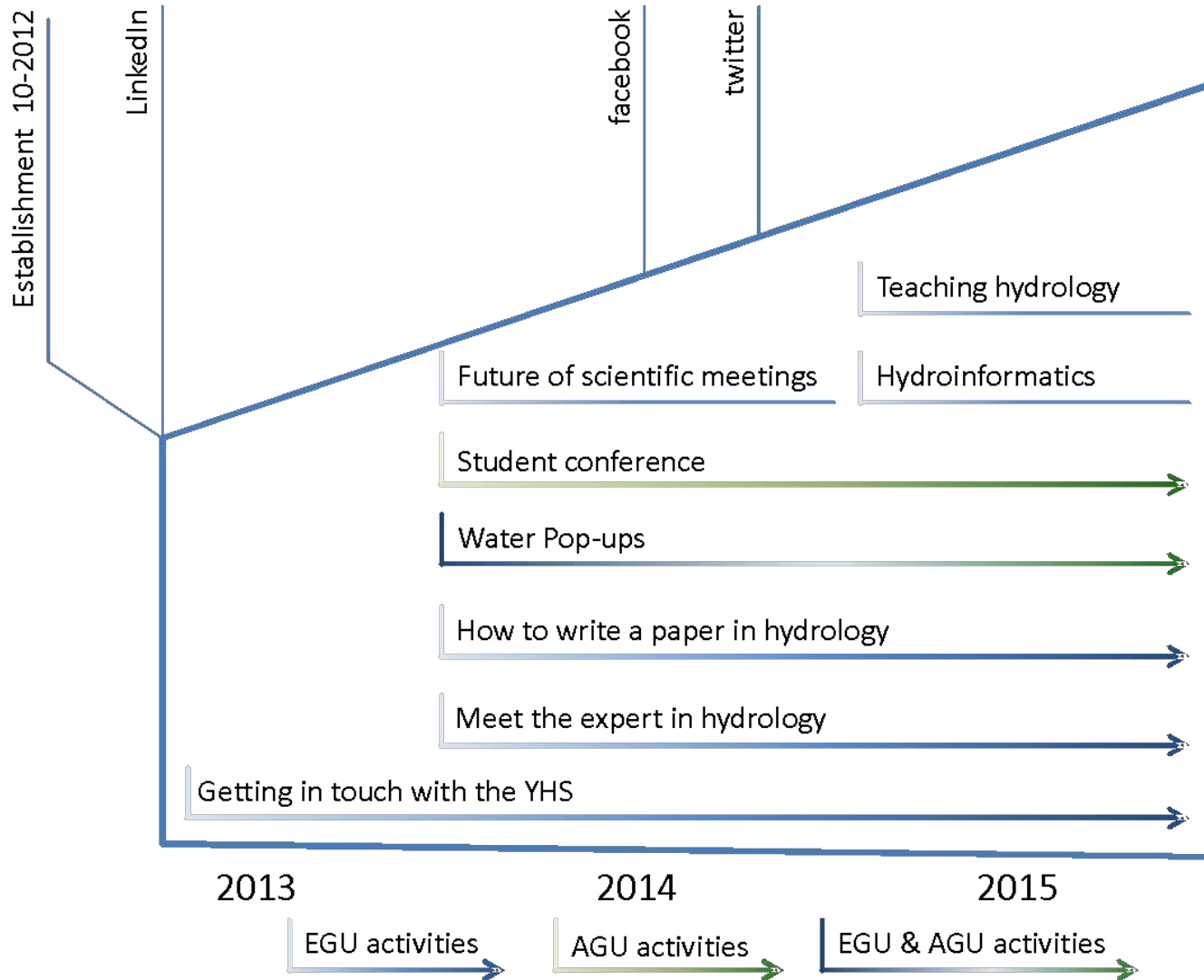
Country representatives

Austria – Daniel Klotz
Bangladesh – Shahadat Hossain
Ethiopia – Fasil Teshome Worku
Germany – Hannes Müller, Ina Pohle
Greece – Nikolaos Vavlas
Ireland – Shaun Harrigan
Jordan – Mohammad Alqadi
Kenia – Ruth Katui Nguma
Nigeria – Isaac Adedeji, Bethel Ukazu Ugochukwu
Norway – Jonathan Rizzi
Pakistan – Shabeh ul Hasson
Russia – Georgy Ayzel
Senegal – Ansoumana Bodian
Serbia – Nikola Zlatanovic
South Africa – Coli Ndzabandzaba
Sudan – Modathir Zaroug
Sweden – Claudia Teutschbein
Switzerland – Andrea Popp, Marius Floriancic
Turkey – Nilay Dogulu

Canadian Young Hydrologic Society

Nadine Shatilla (McMaster University)
Kelly Biagi (McMaster University)
Lauren Somers (McGill University)
Caroline Aubry-Wake (U. Saskatchewan)
Pierrick Lamontagne-Gagné (McGill University)
Sophie Wilkinson (Waterloo)
Cody Ross

First years...



Canadian YHS



Past activities since Canadian YHS inception in 2015

Primary affiliation with CGU-HS

- 2016: “Challenges and opportunities in Canadian hydrology” workshop (50 ECRs)
- 2017: “Progression of a scientific career in academia” seminar (60 ECRs, ~13% of CGU attendees)

Current activities

- 2018: “Careers in hydrology: Options and insights” workshop and panel discussion (expected 60+ ECRs)
 - 2018: “Tips and Tricks for publishing in hydrology” workshop
- GWF Annual Science Meeting (in collaboration with GWF YP group)*
- 2018: Inaugural GWF Young Professionals workshop and social events



The Canadian
Young Hydrologic Society

How to write a paper



- Home
- Information
- Programme
- Uploaded presentations
- Webstreaming
- Guidelines
- EGU Today
- Registration
- Exhibition
- Geospots Vienna
- Press & media
- Imprint

EGU.eu

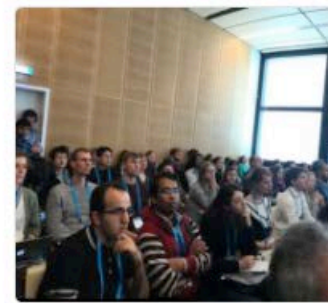
Meeting Organizer
Copernicus Office

SC24/HS12.2 ECS
How to get your hydrology paper published – dealing with editors, reviews and revisions (co-organized)

Conveners: Ina Pohle Q, Wouter Berghuijs Q, Nilay Dogulu Q, Marius Florianci Q, Hannes Müller Q



How to get your paper published short course at #egu17 by @rosswoodskiwi @YoungHydrology younghydrology.com



1:16 PM - 24 Apr 2017

8 Retweets 14 Likes

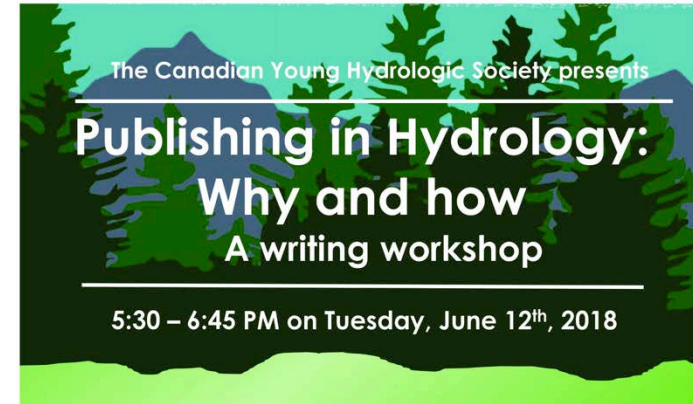
8 1



How to write a paper
How to write a scientific paper in Hydrology?

In the last few years, the Hydrological Sciences (HS) Division of the EGU has organised a very successful short course during EGU, titled “How to write (and publish) a scientific paper in hydrology”. Each presentation has great tips for hydrology students from layout of your paper, what should go in each section and how the publishing system works from a

Key skill, but rarely taught in university programs.



used by the academic publishing system?
Don't know where to publish a paper? Struggling to find time to write?

Learn and ask experts about writing and publishing in hydrology!

Dr. Laura Lautz, Syracuse University
Mike Waddington, McMaster University

on TBD at the Scotiabank Convention Centre in Niagara Falls.

hs@gmail.com
yhs
Young Society



Meet the Expert in Hydrology



European Geosciences Union
General Assembly 2017

Vienna | Austria | 23-28 April 2017

EGU.eu



Stimulate thinking about the
“bigger picture”

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- Programme
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Copernicus Meetings
The Professional Congress Organizer

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Tag your tweets with #EGU17

SC19/HS12.1 ECS

Meet the Expert in Hydrology: Is research at different spatial scales connected? (co-organized)

Conveners: Wouter Knoben Q, Wouter Berghuijs
Fri, 28 Apr, 08:30-10:00 / Room -2.91

★ Add this session to your [Personal program](#)

Hydrological research takes place across extremely detailed hydrological processes of hillslopes; descriptions to simulate streamflow, while global

In theory, research at these different spatial scales leads to an understanding and models, which leads to an understanding across different spatial scales may be more complex heterogeneities across diverse landscapes, and between scales.

This session brings together experts who work on the role of experimental findings at the field/catchment model/theory development), and Prof. Reed Hobbie experiences on bridging the connections between them and their views on future developments.

The expert will start short presentations of the



Wouter Berghuijs

@wberghuijs

Great "meet the expert" session on synergy across scales #EGU17 #hydrology @YoungHydrology @reedh2o



10:01 AM - 28 Apr 2017

Meet the Expert in Hydrology: Is research at different spatial scales connected?

Posted on [May 3, 2017](#) by [Young Hydrologic Society](#)

A –Streams of Thought– contribution by Wouter Knoben, Shaun Harrigan, David Wright, Wouter Berghuijs

Scaling (i.e. the transfer of knowledge across scales) and **scale issues** (i.e. the associated problems) are at the heart of most hydrologic puzzles. In the most recent “**Meet the Expert in Hydrology**” session, organized at the EGU General Assembly 2017 in Vienna, YHS invited three speakers to identify to what degree their research is connected, influenced by, and influencing research at other spatial scales. By evaluating the current state of research and discussing future directions we tried to shed some new light on the question “*Is hydrological research at different spatial scales connected?*”. This is what we learned...

Hydrological research takes place across extremely different spatial scales (from pore-scale to global). Experimentalists have an understanding of detailed hydrological processes of hillslopes and headwater catchments, model developers generate larger-scale

Scientific sessions with a twist



HS1.11 Learning from hypotheses and failures in hydrology PICO session

Conveners: Hannes Müller Q, Inge Wiekenkamp Q
Co-Conveners: Anne Fangmann Q, Georg Houben Q, Ina Pohle Q, Michael Stockinger Q, Lena M. Tallaksen Q, Tim van Emmerik Q, Seth Westra Q

▣ [PICO](#)s / **Mon, 24 Apr. 15:30–17:00** / PICO spot A

★ Add this session HS1.10 How my water research made the news PICO session

Testing hypothesis approaches strongly pose the question: Can we be sure to test extremely useful for methods) can also and even may bring
Convener: Stefanie Lutz Q
Co-Conveners: Andrea Popp Q, Tim van Emmerik Q, Manuel Felipe Rios Gaona Q

▣ [PICO](#)s / **Wed, 26 Apr, 13:30**

★ Add this session to your [Personal program](#)

The aim of this session is to provide the chance to share research. The session is driven approaches
This session is co-organized by the Young Hydrologic Society

We are happy to attend this session.

In cooperation with the Young Hydrologic Society

Public information: This session is scheduled as PICO standard PICO sessions. The oral run wild: slides, posters, videos, &

HS1.6 Water Sciences Pop-Ups PICO Session

Convener: Tim van Emmerik Q
Co-Conveners: Shaun Harrigan Q
▣ [PICO](#) / **Mon, 13 Apr, 10:30–11:08** / PICO

★ Add this session to your [Personal program](#)

In cooperation with the Young Hydrologic Society

This session provides (early career) scientists PICO poster discussion, on their future vision scientists and the general public. Presentation issues like the future of publishing, education notable examples from previous editions of the

We specifically encourage students and early career stage, with the goal of having a diverse

 **YoungHydrologicSoc.**
@YoungHydrology

Following

Great turnout at the hypothesis PICO #EGU17



Short courses and workshops



Quick recap on EGU 2017 Short course on Hydrological Forecasting

Posted on July 14, 2017 by shaunharrigan

For the first time at this year's EGU 2017, HEPEX and the YHS jointly organised a Short course on Hydrological forecasting and

- Estimating p
- Reducing pr
- Forecast ver
- Risk-based c

Hydroinformatics for hydrology: geostatistical modelling

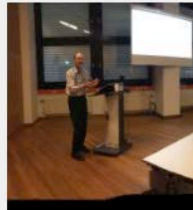
Posted on July 3, 2017 by Young Hydrologic Society

This year's focus for "[Hydroinformatics for hydrology](#)" short course at EGU GA 2017 was *geostatistics*. Being introduced to the fundamentals of geostatistics, the participants (> 60, the room was geostatistical metho András Bárdossy (U University of Crete); You can find the lect

Opinion papers in hydrology: Why and how? (short course) at EGU 2017

Posted on May 3, 2017 by tvanermerik

[An Introduction to Geostatistics in R](#) (by post later this month



Using R in Hydrology (short course) at EGU 2017

Posted on May 2, 2017 by shaunharrigan

"Using R in hydrology" short course at EGU 2017 was a great success, attracting over 100 participants (in a room with 80 seats, see photo!). We covered a wide range of hydrologically focused applications of the R programming language: reproducible documents with **rmarkdown**, **Using R as a GIS**, **Hydrological modelling with airGR**, as well as **Visualisation**, **Extreme value statistics** and **Trend analysis** of discharge time-series. The slides with all the code and example datasets are available [here](#).

by Anna Solcerova (Delft

Young (and mature) scientists on a short course titled "C Vazken Andréassian, and topic. Participants of this as well as personal advice quantifiable message, which controversial. Vazken disc readability. Two things all papers, and that good opi

Find their presentation

[Bettina Schaepli](#) – [Opinion](#)
[Hubert Savenije](#) – [Opinion](#)
[Vazken Andréassian](#) – [Opinion](#)



The Canadian Young Hydrologic Society Presents:
**Careers in Hydrology:
Options and Insights**
1:30-4 pm on Sunday, June 10th, 2018

Graduate and undergraduate students, post-docs and early career hydrologists: Start the 2018 CGU Annual Meeting off by attending the **CYHS workshop and social night!**

featuring guest speakers:

Tracuse University - Launching new research projects
Environment Canada - A perspective from a government hydrologist
University of Northern British Columbia - Working abroad as a scientist, working with NGOs
MBA, P.Geo, Amec Foster Wheeler - Working as a hydrologist in industry

With social event to follow!

Cost: \$10, Venue TBA
online when registering for the CGU Conference in Niagara Falls

mail.com



[Continue reading](#)

Posted in [EGU](#), [News](#)



We still have a cc geostatistics in hydrology
1:38 PM - 27 Apr 2017



Posted in [EGU](#), [News](#), [Res](#)

Booked room for "Using R in Hydrology" short course at EGU 2017

Informal activities



YoungHydrologicSoc.
@YoungHydrology

Following

Hydrodrinks was very well attended again this year! #egu17 #hydrology



11:38 PM - 26 Apr 2017

3 Retweets 12 Likes



Retweet 3

Like 12



Similar activities



Separate committees established

IAHS « IAHS 2017

IAHS 2017

IAHS 2017 SCIENTIFIC ASSEMBLY
10 – 14 JULY 2017
PORT ELIZABETH, SOUTH AFRICA

"WATER AND DEVELOPMENT: SCIENTIFIC CHALLENGES IN ADDRESSING SOCIETAL ISSUES"

Home About HydroEco Registering for HydroEco2017 Attending HydroEco2017 Contact

HydroEco 2017 | Ecohydrology on the edge:
ecology-hydrology-human interactions in a changing world

18-23.06.2017 - University of Birmingham, UK

6th International Multidisciplinary Conference on: Hydrology and Ecology

YHS core members

Online activities



Main content

- Updates
- Info about YHS
- Past resources
- Blog posts

Quick recap on EGU 2017 Short course on Hydrological Forecasting

Posted on July 14, 2017 by shaunharrigan

For the first time at this year's EGU 2017, [HEPEX](#) and the YHS jointly organized a [course on Hydrological Forecasting](#). The course was focused on real-time hydrological forecasting and topics covered included:

- Estimating predictive uncertainty (e.g. ensembles & post-processing)
- Reducing predictive uncertainty (e.g. data assimilation)
- Forecast verification (graphical & numeric approaches)
- Risk-based decision making game for operational water management – it



Social media presence



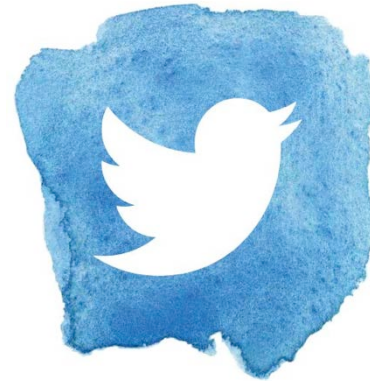
- **LinkedIn Group**

385
Members



- **Facebook Group**

1.6 k
Members



- **Twitter Page**

1870
Followers

@YHS
@CanadianYHS



- **Youtube Channel**

34
Subscribers

37 Videos
2277 VViews

In Summary



- **Idea:** YHS is a catalyst for involvement of early career hydrologists within the scientific community (which already led to big changes within e.g. EGU, AGU, IAHS, CGU)
- **Current status:** YHS runs a sweep of online and offline activities annually reaching ~1500 people offline and ~7500 online.
- **Future:** remain focused on shaping ECS involvement in the scientific community (we're happy with most current aspects!), but focus on better global coverage.

EDUCATION Opinion



Creating Community for Early-Career Geoscientists

Student involvement in geoscience unions: A case study from hydrology

By Wouter R. Berghuijs, Shaun Harrigan, Evan L. Kipnis, Nilay Dogulu, Marius Florianci, Hannes Müller, Ina Pohle, Sheila M. Saia, Frank Sedlar, Maarten Smoorenburg, Claudia Teutschbein, and Tim van Emmerik © 16 December 2015

The American Geophysical Union (AGU) and the European Geosciences Union (EGU) play central roles in nurturing the next generation of geoscientists. Students and young scientists make up about one quarter of the unions' active memberships [*American Geophysical Union*, 2013;

Join us!



@YHS

@CanadianYHS