

SIG 4 Science | Environment | Health activities summary 2018 for the ESERA Board

- The present SIG 4 Science | Environment | Health **members and friends' list** includes 88 persons (December 2018).
- The SIG4 suggested Stuart Glennon, Butler University, Indianapolis as a **keynote speaker** at ESERA 2017 conference in Dublin. Professor Glennon is a specialist on New Mechanics, a promising new approach to Nature of Science.
- The proposal for a second edition of the **flag book** of the SIG 4: **Zeyer, A., & Kyburz-Graber (Eds.). (2012). Science | Environment | Health. Towards a Renewed Pedagogy for Science Education. Dordrecht, Boston, London: Springer Verlag** has been **accepted** by the Editorial Board of the Springer Science Education Series. The book is planned to appear in summer 2020.
- The **SIG4 Miniconference 2018** has successfully taken place in Kiel, Germany, from 19th August to 21st August 2018. Kerstin Kremer from the IPN, Kiel, Germany, and her crew did a perfect job in hosting 30 participants. People appreciated the familiar atmosphere and the intensive presentations and discussions on a level playing field for all participants. Young researchers' travel costs were partly funded by the ESERA.
- There are plans for establishing an international **SIG research project** about virus knowledge, proposed and coordinated by Uwe Simon from the University of Graz, Austria.
- Suzanne Kapelari from the University of Innsbruck, Austria, offered to host the **next SIG Miniconference in 2020**
- Olga Mayoral from the University of Valencia, Spain, plans to invite for the **SIG Miniconference 2022** in the University's botanical garden.
- A **chapter publication** resulting from the invited SIG4 symposium at ESERA 2017 conference in **Selected papers from the ESERA 2017 Conference** is in print:

Zeyer, A., Álvaro, N., Arnold, J., Benninghaus, J. C., Hasslöf, H., Kremer, K., ... Keselman, A. (in print). Addressing Complexity in Science | Environment | Health Pedagogy. In E. McLoughlin, O. Finlayson, S. Erduran, & P. Childs (Eds.), *Contributions from Science Education Research, Selected papers from the ESERA 2017 Conference*. Dordrecht, NL: Springer Verlag.

- SIG 4 members published several **papers** concerning S|E|H issues (list assembled from the updates to the ResearchGate project):
 1. Sjöström, J., & Talanquer, V. (2018). Eco-reflexive chemical thinking and action. *Current Opinion in Green and Sustainable Chemistry*, 13, 16–20. <http://doi.org/10.1016/j.cogsc.2018.02.012>
 2. Malmberg, C., & Urbas, A. (2018). Health in school: stress, individual responsibility and democratic politics. *Cultural Studies of Science Education*, (0123456789). <http://doi.org/10.1007/s11422-018-9882-0>
 3. Keselman, A., Devetak, I., Enzinger, S. M., Fink, A., Devetak, S. P., Simon, U. K., ... Zeyer, A. (2018). ON THE VALUE OF HEALTH AND MEDICINE IN SCIENCE EDUCATION: NOTES FROM A SCIENCE | ENVIRONMENT | HEALTH SIG SYMPOSIUM. In O. Finlayson, E. McLoughlin, S. Erduran, & P. Childs (Eds.), *Proceedings of the ESERA 2017 Conference. Research, Practice and Collaboration in Science Education*, (pp. 1178–1187). Dublin: Dublin City University.
 4. Keselman, A., Devetak, I., Enzinger, S. M., Fink, A., Devetak, S. P., Simon, U. K., ... Zeyer, A. (2018). ON THE VALUE OF HEALTH AND MEDICINE IN SCIENCE EDUCATION: NOTES FROM A SCIENCE | ENVIRONMENT | HEALTH SIG SYMPOSIUM. In O. Finlayson, E. McLoughlin, S. Erduran, & P. Childs (Eds.), *Proceedings of the ESERA 2017 Conference*.

Research, Practice and Collaboration in Science Education, (pp. 1178–1187). Dublin: Dublin City University.

5. Zeyer, A., & Dillon, J. (2018). The role of empathy for learning in complex Science|Environment|Health contexts. *International Journal of Science Education*, 0(0), 1–19. <http://doi.org/10.1080/09500693.2018.1549371>
 6. Arnold, J. C. (2018) 'An integrated model of decision-making in health contexts: the role of science education in health education', *International Journal of Science Education*. Taylor & Francis
- The SIG is planning **several activities for the upcoming ESERA 2019 conference in Bologna (It)**:
 1. A preconference, in which we hope to discuss first versions of the new chapters for the 2nd edition of Springer's Science|Environment|Health book
 2. An invited symposium for which call has been sent out.
 3. A members' meeting in which we will elect a new co-coordinator of SIG4 for Alla Keselman, who will resign after the ESERA 2019 conference.

The SIG4 co-coordinators:

Albert Zeyer

Alla Keselman