

Prof. Dr. Agnaldo Arroio

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Chair in the IOSTE – International Organization for Science and Technology Education executive board (2018-2020)

<https://www.ioste.org/>

CV Summary:

### **Education:**

He holds an undergraduate degree in Chemistry from the University of São Paulo (1996), a Master's Degree in Chemistry (Physics and Chemistry) from the University of São Paulo (1999), a Ph.D. in Physics and Chemistry from the University of São Paulo, undergraduate degree in Image and Sound: Audiovisual Production by the Federal University of São Carlos (2004), Post-doctorate in Education by the University of São Paulo (2005) and License in Teaching Methodology by the Faculty of Education of the University of São Paulo (2011).

### **Topics of scientific and pedagogical activities**

Has experience in Chemistry, Communication and Education, with emphasis on Audiovisual Communication in Education, acting on the following topics: Teaching chemistry, Information and Communication Technologies, Media Literacy in education and science communication.

### **Membership in societies and boards:**

He is currently Associate Professor at the Faculty of Education of the University of São Paulo. He directs and supervises a master's, doctorate and postdoctoral degree in Education and Science Teaching. Representative of South America at the International Board IOSTE - International Organization for Science and Technology Education (2010-2012; 2012-2014). President of IOSTE (2018-2020); Director of Education - ABQ - Brazilian Chemical Association (2013-2015, 2015-2017), Director of International Affairs - ABQ (2017-2019), Coordinator of the DINTER – Inter-institutional Doctorate - UFPI - FEUSP (2015-2020).

In the management activities at FEUSP, I was deputy head of the Department of Teaching Methodology and Comparative Education (2010-2012) and (2016-2018), head of the Department of Teaching Methodology and Comparative Education (2018-2020; 2020-2022), Deputy Coordinator of the Graduate Program in Science Education (2010-2012).

### **Cooperation activities:**

- Advisor and Teacher of ProForsa I and II Project Teaching - a partnership between FEUSP and Japan International Cooperation Agency - JICA developed in the Republic of Mozambique for teacher training and supervision (2013-2015).
- Visitant Professor at Siauliai University – Lithuania by Erasmus Cooperation (2016).
- Visitant Professor at Beijing Normal University – China; INEI – International Network of Education Institutes (2019).
- Visitant Professor at University KwaZulu-Natal – South Africa by PAME-CAPES (2020).

- Member of the editorial board of indexed journals *Journal of Baltic Science Education*, and editor in chief of *Problems of Education in the 21st Century*.
- Supervision at FEUSP, 10 PhDs completed, 17 Masters completed, 3 postdoctoral Supervisors and at the moment 6 PhDs in progress, 2 Masters in progress.
- During the period of 2016-2018 he was a collaborator at UNIVESP (Virtual University of São Paulo) teaching courses in Chemistry (2016) and Didactics of Science (2018), Chemistry, Society and Daily Life (2018) for UNIVESP's Chemistry Degree course, video-lessons and coordinating supervisors and student tutors for distance learning.

### **Last Publications:**

- Rodrigues, M. A., Arroio, A. (2020). Lesson study in pre-service physics teachers' education: A case in Brazil. *Gamtamokslinis ugdymas / Natural Science Education*, 17(2), 139-152. <https://doi.org/10.48127/gu-nse/20.17.139>
- Rodrigues, M., Santos, V. C. dos, & Arroio, A. (2020). A Formação de Comunidades de Prática no Ensino de Física: Uma Análise a Partir de Grupos de Estudo de Aula. *Revista Brasileira De Pesquisa Em Educação Em Ciências*, 20(u), 1275–1306. <https://doi.org/10.28976/1984-2686rbpec2020u12751306>
- Gomes, Sheila Freitas, Penna, Juliana Coelho Braga de Oliveira, & Arroio, Agnaldo. (2020). Fake News Científicas: Percepção, Persuasão e Letramento. *Ciência & Educação (Bauru)*, 26, e20018. Epub July 10, 2020. <https://dx.doi.org/10.1590/1516-731320200018>
- Arroio, A. (2019). Education as a Human Right against Hate Speech and Intolerance. *Problems of Education in the 21st Century*, *Problems of Education in the 21st Century*, 77(3), Continuous. presented at the June/2019. doi: <https://doi.org/10.33225/pec/19.77.314>
- Arroio, A., Sana, T. C. V., Novaes, L. G. B., Rezende, D. B. (2019). Media Literacy and Scientific Education: the student's protagonism, p. 5-17, In: V. Lamanauskas (Org.). *Natural Science Education in a Comprehensive School 2019*.
- Arroio, A. (2017). Is Media Literacy an urgent issue in Education for all? *Problems of Education in the 21st Century*, v. 15, n. 5, 416-418.
- Colagrande, E. Arroio, A. (2018). Representações sociais sobre Ciência e cientista – importante discussão na formação de professores de Química. *Educação Química em Ponto de vista*, v.2, n.1, 20-40.
- Locatelli, S., Gomes, P. H. S., Arroio, A. (2018). Connections involving the use of Chemical language and understanding of reduction-oxidation reaction. *Natural Science Education*, v. 15, n. 2, 61-71.
- Arroio, A. (2018). The production of digital videos: a learning situation in science class. In A. Jobér, M. Andrée and M. Ideland (Eds). *Future Educational Challenges from Science and Technology Perspectives. XVIII IOSTE Symposium Book of Proceeding*. (pp. 14-20). Malmö: Malmö University. Retrieved from <https://doi.org/10.24834/978-91-7104-971-1>
- Arroio, A., Rezende, D. B., Sana, T. C., Novaes, L.G. B. (2018). Production of Animations for the Investigation of Submicroscopic Representations by High School Students. In A. Jobér, M. Andrée and M. Ideland (Eds). *Future Educational Challenges from Science and Technology Perspectives. XVIII IOSTE Symposium Book of Proceeding*. (pp. 21-29). Malmö: Malmö University. Retrieved from <https://doi.org/10.24834/978-91-7104-971-1>
- Silva, M. J., Pereira, M. V., Arroio, A. (2017). O papel do Youtube no Ensino de Ciências para estudantes do ensino médio. *Revista de Educação, Ciências e Matemática*, v. 7, n. 2, 35-555.

Colagrande, E., Arroio, A. (2017). Views of a group of pre-service science teachers on the use of experimental activities in science teaching. *Problems of Education in the 21st Century*, v. 75, n. 6, 525-534.

Santos, V., Arroio, A. (2016). The representational levels: Influences and contributions to research in chemical education. *Journal of Turkish Science Education*, v.13, p. 3 – 18.