

2021 Commission / Section Report

Please type your responses below each section. Please keep your responses as concise as possible.

GENERAL

Commission/Section's name: International Association for Science and Cultural Diversity

Website URL: www.iascud.org

Names and affiliation of officers:

1. **President**: Madeine Muntersbjorn, University of Toledo
2. **First Vice-president**: Michael Barany, University of Edinburgh
3. **Second Vice-president**: Han Qi, Zhejiang University,
4. **Treasurer**: Roy Wagner, Eidgenössische Technische Hochschule Zürich
5. **Secretary General**: Nina Atanasova, University of Toledo
6. **Assistant Secretary General**: Vitaly Pronskikh, Fermi National Accelerator Laboratory, Batavia
7. **Assessors**: Peeter Mürsepp, Tallinna Tehnikaülikool; Benedikt Loewe, Universität Hamburg; Takashi Nishiyama, State University of New York, Brockport; Karine Chemla, Université Paris 7.

Frequency of business meetings in the past year:

IASCUD Council meeting: 21 May 2021

IASCUD General Assembly meeting: 23 July 2021

Subcommittees and their function (if any) with details of activities:

Membership number of the Commission/Section (if formally constituted). Please also shortly describe the procedure for becoming a member (application, membership fee, etc):

IASCUD has 51 members. No fees are required to join. Prospective members are invited to send their email address to the Secretary General to be added to the IASCUD mailing list.

Changes made in the governance, statutes or organization structure:

Elections were held at the General Assembly meeting in July.

Muntersbjorn, Atanasova, Pronskikh, Mürsepp, Loewe, and Chemla were re-elected. The former Treasurer, Nishiyama, was elected Assessor. Barany was elected First Vice-president. Qi was elected Second Vice-president. Wagner was elected treasurer.

ACTIVITIES

Please list only the activities supported or undertaken by the Commission or Section as such during the past year, not the individual activities or publications of its officers. Please give the link to the webpage where each reported activity is advertised. Details for grants can be given in the table below. If any budget was used for other reasons than grants please do explain how and why it was spent.

Conferences:

Workshops and Symposia:

At the 26th International Congress for the History of Science and Technology IASCUD sponsored three symposia, as posted on our website at:

<http://iuhpst.org/pages/inter-division-commissions/iascud/activities/ichst-2021.php>

Symposium Title: **New perspectives: differentiating cultures in ancient mathematics** Symposium organizers: Agathe Keller and Fanglei Zheng

Speakers:

Robert Middeke-Conlin, Variety in a uniform tradition: A comparison of metrology and mathematical education in Old Babylonian sources

Agathe Keller, Cultures of quantification and computation as testified by the *Śulbasūtras*

Jingbo Cao, An Analysis of the Double-Fourteenth Book in Billingsley's Translation of Euclid's *Elements*

Shuyuan Pan, What is "Multiplying by the Different and Dividing by the Same"? Differentiating Two Practices and the underlying Epistemic Principles in the "Rule of Three" Procedures in China

Lu Peng, Using the Square or Using the Circle? Different Proofs on the "Broken Bamboo" Problem

Karine Chemla, Mathematical cultures according to observers and to actors
The historiography of number systems and arithmetic

Yan Wu and Zhihui Chen, 19th Century French Sinologists's observations on the Chinese abacus and its cultural background

Fanglei Zheng, How many mathematical cultures are there in the works of Fibonacci?
An alternative perspective on differentiating cultures in mathematical practices

Symposium title: **The shaping of differences in the historiography of ancient mathematics - Editing and translating ancient mathematical texts**

Symposium organizers: Karine Chemla and Erwin Neuenschwander

Speakers:

Philip Beeley, Authority and Authenticity. Editing ancient mathematics in Restoration Oxford
Xiaofei Wang, J. -L. Lagrange and the translation and diffusion of the Greek texts

Qi Han, Using European Algebra to Interpret Chinese Traditional Mathematics: The Role of Mei Juecheng (1681-1764) in the Development of Evidential Studies

Yiwen Zhu, Mathematics and Evidential Scholarship in Eighteenth Century China

Ivahn Smadja, Historiography in the making: Humboldt and the mathematicians on ancient mathematical texts

Christopher Hollings, Editing the Rhind Mathematical Papyrus

Xiaohan Zhou, Differences between interpretations using and not using modern mathematical symbols? The “procedure of pile-accumulation” in the Jade Mirror (1303)

Erwin Neuenschwander, Van der Waerden’s Approach to History of Science. His methods and results in comparison to contemporaries

Symposium title: **Placing mathematical knowledge in a world of and beyond nations**
Symposium organizers: Michael Barany and Ellen Abrams

Symposium speakers:

Harald Kümmerle, The topology of interwar Japan: studying an emerging community institutionally and conceptually

Bertrand Eychenne, From circulation to transfer of knowledge: infinitesimal calculus in Colombia during the 19th century

Leo Corry, Computing with WEIZAC in the early days of the State of Israel: Chaim Pekeris's contribution to applied mathematics (1948-1960)

Adam Dunn, From the local to the global: connecting the evolution of statistical thought and practice in eighteenth century Europe

Natalie Berkman, International mathematics in literature: the Oulipo’s mathematical connections

Michael Barany, Emphatic adverbs, proper nouns, and the disciplinary grammar of international mathematics

Kevin Lambert, The Malthus Library: The library as cognitive instrument in the making of the population principle

Slava Gerovitch, The Kitchen and the Dacha: Productive Spaces of Soviet Mathematics

Vitaly Pronskikh, Internationalization and the interplay of theory and experiment in 1970s high energy physics

Anya Yermakova, Can mathematical knowledge be a form of self-knowledge? The case of the late Russian Empire.

Barbara Walker, Cold War story-telling in the mathematical communities of the United States and the Soviet Union

Ellen Abrams, Global mathematics and local masculinities

Andrew Fiss, Toward a history of math anxiety: From oral examination to written testing in American redefinitions of student performance, 1890s-1920s

Publications:



Outreach:**Other activities supported:****Grant Recipients (please add as many lines as necessary to the table): Grant Recipients (please add as many lines as necessary to the table):**

Name and affiliation	Details of covered costs (please provide receipts)	Purpose of travel (e.g. Conference and title of paper delivered)
Anya Yermakova	Conference registration fee	ICHST21 Can Mathematical knowledge be a form of self-knowledge? The case of the late Russian Empire
Natalie Berkman	Conference registration fee	ICHST21 International mathematics in literature: the Oulipo's mathematical connections

FUTURE PLANS

Please do indicate for each of the planned activities, details of the estimated financial support, if any, that the commission or section is planning to provide for those activities.

Changes planned in governance, statutes or organization structure:

On the one hand, we had a successful year with many speakers participating in three symposia at the virtual ICHST 2021 in Prague. On the other hand, like many institutions during the pandemic, our operations were disrupted and many plans were put on hold. The IASCUD council is taking advantage of the fact that we currently do not have any funds earmarked for specific speakers and are using this window to revise our funding procedures to make them more transparent and to encourage more members to submit proposals for IASCUD projects, both for administrative support as well as funding. In 2022, we are going to have three rounds of requests for proposals in 2022. While we have received some project proposals already, decisions about what projects to fund in 2022, and which early career scholars to support, will be made after the first round of proposals are received at the end of January 2022 (1st round). We will also consider proposals at the end of April (2nd round) and September (3rd round).

Conferences:**Workshops:****Symposia:**

We look forward to presenting symposia at the upcoming 17th Congress on Logic, Methodology, and Philosophy of Science and Technology (CLMPST 2023), Science & Values in an Uncertain World, in Buenos Aires, Argentina, 24–29 July 2023.

Publications:**Outreach:****Development of the website:**

Information about requests for administrative and funding support for IASCUD projects will be posted on our website along with proposal submission deadlines.

Other:

OTHER INFORMATION

Please provide any other information relevant to the activities and operation of your Commission / Section not already included above.

FINANCIAL REPORT

Below we ask you to report both on the DHST funds used (including receipts) and an overall statement of the commission/section financial position.

Use of DHST funds in 2021

*It is required to submit electronic copies of **all** receipts and invoices in a single pdf file, separate from the present report, and to retain originals. For each of the three categories, we ask you to differentiate between the different costs that were made and to include a short description for each of those costs (e.g. under "Conference support" one could have "Grant for dr. X")*

Administration costs	61.20 USD
Cost 1 : Mailing expense	Postage stamp (1.20 USD) to send a reimbursement check via regular mail to a grant recipient in France (Exhibit A)
Cost 2 : Wire-transfer fee	Total 60.00 USD for outgoing wire-transfer admin fee (Exhibit B)
Conference support	225.00 Euro (=272.91 USD)
Cost 1 : Registration fee	95 EUR was spent for conference registration fee of Anya Yermakova (Exhibit C)
Cost 2 : Registration fee	130 EUR was spent for conference registration fee of Natalie Berkman (Exhibit D)
TOTAL	334.11 USD

Overall statement of the Commission/Section's financial position.

Please do include the budget that was spent in 2021. For commissions, details of any surplus and other sources of funding should be included.

Budget on 01/01/2021	8,126.28 USD
INCOME:	
DHST grant (received)	1,418.14 USD (7/29/2021)
Other grant 1 : DLMPST	860.00 USD (3/20/21)
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COSTS:	
DHST grant (spent):	334.11 USD
Additional cost: Conference support	648.39 USD

TOTAL :	9,421.92 USD =8,074.45 Swiss Francs
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Please indicate whether any conference support for 2021 has not been spent due to the COVID-19 pandemic; in that case please specify what use you plan to make of these funds in 2022 or in later years. These uses may include expenses related to online meetings, as well as workshops and conferences that include early career scholars among the speakers.

GRANT REQUEST

Please provide a clear statement of your grant request for the next year. For the estimated costs for conferences we ask you to keep this consistent with the details of the budget given under "FUTURE PLANS".

Please note that application may currently be made for:

- Up to EUR 1200 for website maintenance/development, increased online presence and online meetings, as well as workshops and conferences that includes early career scholars among the speakers. Please include details of planned developments and events, invoices, and/or names of supported earlier career scholars.
- Up to EUR 300 for administrative/operating costs,

Budget for the proposed use of grant requested from DHST for the next year

Website Esimated Cost 1 (eg web hosting) Esimated Cost 2	
Administration costs Esimated Cost 1 Esimated Cost 2 Esimated Cost 2	EUR 300
Conference support Esimated Cost Conference 1 Esimated Cost Conference 2 TOTAL	EUR 1200 600 600 EUR 1500

Details account:

Please provide the details of the bank account to which the grant should be transferred

Account 

E-mail contact for bank transfer: roy.wagner@gess.ethz.ch