



APPEC GA meeting 2022
6th/7th of December 2022, Paris
<https://indico.cern.ch/event/1220421/timetable/#all>

Attendees: Stan Bentvelsen, Giacomo Bruno, Fedor Danevich, Sijbrand de Jong, Job de Kleuver, Krijn de Vries, Julie Epas, Peter Forgacs, Andreas Haungs, Katri Huitu, Aldo Ianni, Uli Katz, Antoine Kouchner, Sylvie Leray, Marek Lewitowicz, Katrin Link, Christos Markou, Justin O'Byrne, Mario Pimenta, Vincent Poireau, Leszek Roszkowski, Alexandra Saftoiu, Andrew Williams, Xin Wu

Report from GA Chair (Andreas Haungs)

- In memoriam Stavros Katsanevas
- Agenda of the GA adopted
- Minutes from the last GA approved

APPEC 2022

APPEC Consortium

- Based on a MoU and a financial agreement with DESY (host of the APPEC common fund)
- A budget of 70 k€/year
- 3 bodies: General Assembly (GA) with observers (new 2022: HEPP-EPS), Scientific Advisory Committee (SAC), Joint Secretary (JS)
- 18 (+1 suspended: Russia) member countries with 22 funding agencies. In 2022 new: Austria and Ukraine

APPEC Activities

- 4 GA meetings (2 in-person)
- Town Meeting (Berlin), Roadmap evaluation
- JS: many meetings, SAC: work on the mid-term review
- Underground labs, multi-messenger workshops
- Contributions to: ECFA R&D Detector Roadmap, ASTRONET Roadmap, Snowmass process
- Horizon Europe: Astroparticle physics: a domain for the 2023-2024 INFRA SERV call
- JENA Activities (+ seminar in Madrid)
- ESCAPE: report as External Advisory Board
- EuCAPT: new governance structure
- Member of IYBSSD
- Tech Forum: postponed in 2023

DZA (German Center for Astrophysics)

- The DZA is a joint initiative of German astronomy and astroparticle physics with the idea of creating a national and also international hub of astrophysics.
- Elaboration of the structure of the centre in next 6 months => 3 years ramp-up => 10 years funding by 170 Mio€/year
- Further test drills and geological / seismic investigations to determine suitability of granite for LSL & ET
- First hires (5 profs, 60 staff and support) 2023

Einstein Telescope site and DZA role: Contributions to the reduction of seismic noise among others

ET possible sites: Sardinia, Netherlands or Lusatia.

Andreas Haungs concludes that ET, as a European project, needs support from as many countries as possible, independent of site.

JENA Seminar 2022

- 2nd JENA Symposium: 3-6 May 2022, Madrid, Spain: <https://indico.cern.ch/e/JENAS2022>
- Discussion of the JENA Eols (Dark Matter iDMEu, GW for fundamental physics, Machine-Learning Optimized Design of Experiments, Nuclear Physics at LHC, EDM Search of Charged-Particle Electric Dipole Moments, synergies btw the Electron-Ion Collider and the LHC): ENA chairs will discuss with all Eol leads separately the status, plans, requests and schedule for 2023 mid-January
- Special session with invited Funding Agencies
- There is a need for a European Workshop on federated computing: organized in 2023: <https://agenda.infn.it/event/34738/> APPEC nomination for expert members in organization committee: Proposal – Stefano Bagnasco (Torino), Gonzalo Merino (PIC)
- Next steps: JENAS in 2.5-3 years, better prepare for the FA session

Implementation of ECFA R&D Detector Roadmap

- The roadmap as well as documentation of full process is available at: <https://indico.cern.ch/event/957057/>
- Implementation by a Governance Structure and mainly by “Detector R&D Collaborations”, thematically organized
- Open for synergetic activities with neighboring fields → opportunity for AP groups
- DRDC & the ECFA Detector Panel (EDP) oversee the scope, R&D goals and milestones as described in the Roadmap
- APPEC nomination of one seat in EDP: Aldo Ianni

NuPECC Long Range Plans

- Dedicated steering committee established, APPEC chair is member of the SC
- More than 120 inputs from the community, several from the APP community
- Jan 2023 – Feb 2023: kick-off meetings of the thematic working groups

Next steps: Nov 2023 – Jan 2024: layout of the LRP draft, community feedback. May 2024: Town Meeting, Nov-Dec 2024: LRP presentation in Brussels

ASTRONET Roadmap

- Extreme Astrophysics (new chapter): Contact Paula Chadwick, Antoine Kouchner. Draft report: https://www.astronet-eu.org/sites/default/files/extreme_astrophysics_and_fundamental_physics_-_draft.pdf

Next steps: Production and pre-print end of Jan 2023 (*postponed*), then distribution; option for a launch event under discussion

Snowmass Process

- Community Summer Study July 17-26, Seattle: <https://indico.fnal.gov/event/22303/>

- The Snowmass Community Study has 10 frontiers addressing different aspects of the field

Next steps: The Particle Physics Project Priorization Panel (P5) recommendations will be due in the second half of 2023. Berrie Giebels (representative of APPEC in the Snowmass **process**) will report

IYBSSD2022

- APPEC is partner (10k€ contribution)
- Several flagship events: <https://www.iybssd2022.org/fr/calendrier/>

Next steps: still possible to propose relevant activities for calendar, chance for APPEC visibility at closing event

ESA M7 Mission Opportunity

- APPEC has written a support letter for ASTROGAM
- ET Collaboration wrote a support letter for THESEUS
- Decision nov 2022: ASTROGAM rejected, following missions selected for the M7: CALICO, HAYDN, M-MATISSE, Plasma Observatory and THESEUS (multi-instrument mission for transient astronomy, focused on gamma-ray bursts)

Outlook 2023

- GA meetings: 2 longer, 2 shorter
- MoU and new SAC, GA chair and JS chair elections
- Roadmap update and public event
- APPEC Tech Forum
- Horizon Europe: ACME et al.
- Underground facilities
- ESCAPE future
- Implementation of Roadmaps
- Governance Working Group
- Newsletter, webpage
- European Early Career Initiative
- Attracting more APPEC countries

Sustainability in HECAP

- Grassroots initiative Striving towards Environmental Sustainability in High Energy Physics, Cosmology and Astroparticle Physics
- Comments for or contact to the initiators can be made directly by the link given in the document or to Andreas.

Next step: discuss the topic in the next GA.

APPEC Memorandum of Understanding

- The proposed new version has been sent to APPEG GA, with a reminder by email by Katharina the 22nd of March.
- Request to validate it with the legal departments.

Next step: to be discussed for approval in the next GA.

Support of APP in Ukraine – Fedor Danevich

Examples of ways to support APP researchers in Ukraine:

- 2-3 years grants for research groups* in Ukraine to support projects in the field
- scholarships in European scientific institutions for PhD students and young scientists involved in the researches in Ukraine;
- 3-6 short-term research fellowship or visiting scientist grants to participate in international collaborations;
- remote access to the EU high value scientific equipment (HPC clusters, Telescopes, etc.)
- providing scientific equipment to the Ukrainian groups in exchange for destroyed or obsolete ones.

*APP groups in Ukraine: see Fedor's presentation at <https://indico.cern.ch/event/1220421/timetable/#20221206>

Report by General Secretary – Katharina Henjes-Kunst

- Internal meetings: 4 APPEC GA meetings, 5 JS meetings, SAC meetings, working meetings (GA chair, vice chair, general secretary, Julie Epas)
- Further working groups; Town meeting, TechForum, MoU, ACME, Horizon Europe, JENA External meetings: JENA Symposium (3-6 May, Madrid), APPEC Multimessenger Workshops (Jan online and Oct 2022 Pisa), Underground Labs Workshop (28-29 April 2022, LNGS)
- Town Meeting in Berlin: 100 participants, aim: to give feedback to the SAC midterm evaluation, successful event

APPEC finances in 2022

Outgoing:

- 30.540,08 € APPEC Town Meeting
 - 10.000,00 € IYBSSD
 - 20.000,00 € EuCAPT via INFN and FOM
 - 4.127,30 € APPEC GA 03/2022 Vienna
 - ~ 2.000 € Outreach costs (pictures Town Meeting, Web add ons, Census questionnaire programm)
 - 5.000 € Astroparticle Symposium 2022
 - 5.000 € Underground Lab Workshop
 - 1.000€ Sponsorship MODE workshop (+Eol financial support)
- 77.667,38 €

Incoming:

- APPEC Common Fund contributions 2021 + 2022 (not all received yet)
 - In total: 50k€ for 2021 (and older years)
- 54k€ for 2022

- + cash balance of 45k€ extra
 - symposium preparation

→ Cash balance could be 71 k€

APPEC Topics in 2023

- Finalising MoU
- Finalising Roadmap
- Agreeing on the further procedure/ Town meetings/ Roadmapping
- New SAC members (GA chair and General Secretary?)
- INFRA-2023-SERV-01-02: Common Proposal with European Astronomy (ACME)
- JENA Computing Workshop, Astroparticle Computing

- APPEC TechForum
- AP support Ukraine
- New APPEC partners: ESA as observer?

APPEC meetings in 2023

- 4-6 APPEC JS meetings (1 in person?)
- 3-4 APPEC GA meetings (2 in person, summer GA in Poland)
- 3 APPEC SAC meetings
- Multimessenger Workshop
- JENA Computing Workshop
- APPEC TechForum
- Roadmap Update Presentation

APPEC finances in 2023

Outgoing:

- 2.000€ Outreach (Website, material)
 - 10.000€ EuCAPT
 - 8.000€ APPEC General Assembly meetings (4/2022 + 2x2023)
 - 1.000€ APPEC Joint Secretariat meeting
 - 1.000€ APPEC SAC meeting
 - 5.000€ TechForum*
 - 10.000€ Update Roadmap Presentation*
 - 5.000€ JENA Computing*
 - 5.000€ Multimessenger Workshop*
 - EoI support
- 47k€

The Astrophysics Centre for Multi-messenger studies in Europe (ACME) – an answer to HORIZON-INFRA-2023-SERV-01-02 call (Research infrastructure services advancing frontier knowledge)

- This topic aims at providing trans-national access (on-site or remote) and/or virtual access to integrated and customised RI services for curiosity-driven research. One of the 3 eligible scientific domains is Astronomy and Astroparticle physics. The EU contribution per project is up to 14.5 million euros.
- Proposal submitted on March 9th, 2023, answer expected in September

Update of the APPEC Roadmap – Sijbrand de Jong

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Outlook Towards the Next Strategy Update
Acronyms and Abbreviation

- Each chapter updates have been discussed during the GA (see document here: <https://indico.cern.ch/event/1220421/timetable/#20221207>)

Next steps: the SAC will update the document according to the suggestions of the GA. The final and last steps will be discussed during the next GA (May 4th, 2023)

EuCAPT – Gianfranco Bertone

- Updated list of EuCAPT task forces
- Updated governance to deal with large number of member institutions

Procedure:

- Invite institutions to join and indicate 1 representative
- The representatives form a 'Council' that votes for SC members
- SC is the executive board, organised around task forces
- Director chairs the SC
- Only formal obligations for participating institutions:
- Nominate a representative
- Keep updated list of members

EuCAPT budget

2022

20 kEUR from APPEC -> travel exchange program 10 kEUR from CERN -> 10.5 for collaboration visits, 9.5 for yearly symposium

2023

Reopening exchange programmes 10k from CERN, 10k from APPEC

Plans for 2023

- Jan: Finalise task forces composition and Steering Committee (SC) new members
- Feb: New Steering Committee established
- May: 1 hybrid Symposium at CERN
- May: Council + task forces meeting
- Fall: Elections Council chair
- Fall: Election new director (with APPEC)
- Activate community through task forces
- 2 EuCAPT thematic workshop