

**IEA Technology Collaboration Program on High Temperature Superconductivity
(HTS TCP)**

Draft Minutes from the
Executive Committee Meeting
21 January 2022
Virtual

ExCo Participants:

Italy: Laura Serri
Angeli Giuliano
Japan: Susumu Kinoshita
Hiroyuki Ohsaki
Germany: Tabea Arndt
Mathias Noe
Switzerland: Carmine Senatore
Roland Brueniger
United States: Merrill Smith
Brian Marchionini (Task Manager)
Don Mosteller (Task Manager)

Sponsors: ASG Superconductor, Christian-Eric Bruzek
Limited Sponsor: Nexans, Jean-Maxime Saugrain

FRIDAY, 21 January 2022

- Welcome
 - Ohsaki-san and Laura welcomed the group to the meeting.
- Roll Call
 - Roll call was conducted and recorded above.
- Approval of Agenda
 - The agenda was approved.
- TCP Administration
 - Financial report (RSE)
 - Mathias will re-resend the invoice for Germany's 2020 payment
 - Finland is no longer part of the TCP, but invoices were paid through 2021.
- Review Action Items from last meeting

- Energetics to submit an official application by the end of the year. (Complete. Sent to Presidium)
- Nexans sponsorship. Vice Chair sends an official letter, and then Nexans needs to fill paperwork out to accept the invitation. (Nexans obtaining internal approvals)
- Task Managers will circulate the latest version of the [TCP Modernization] document for final review and approval. (Complete)
- The task managers will put an outline together to start the [HTS as a disruptive technology] idea and then convene a meeting to discuss it. (Complete)
- Discuss next steps with Task Manager Application approval (Ohsaki-san/Laura)
 - A member asked if Energetics could provide the number of hours for each work package. **Action Item:** Energetics will estimate the number of hours.
 - The Wind TCP's Task Manager contract is structured in the manner described in the Energetics application (by work percentage) rather than an hourly breakdown
 - The TCP will allow another week for the ExCo to submit questions about the application and will then move on to voting to accept the application by 28 January to confirm that members absent from this meeting have received and approve of the application
- TCP Work packages (Brian)
 - WP01-networking & linking with other TCPs
 - No activity since last ExCo
 - Discuss future action needed
 - The Fusion TCP was proposed as the next TCP engagement to consider pursuing.
 - The Wind TCP is currently discussing how they can organize a topical meeting among the experts of two different TCPs. Once the format is agreed upon, the HTS TCP can discuss this opportunity to possibly organize a joint meeting. **Action Item:** Laura will provide an update.
 - WP02-Member Acquisition
 - Jean Maxime is working with the Nexans legal team to accept the invitation to join as a Sponsor
 - Discuss future action needed
 - China, Brazil, Russia, and New Zealand are some of the countries where HTS activity is ongoing and could be explored for TCP membership
 - SuperOx is currently discussing the possibility of sponsoring the HTS TCP. Carmine Senatore is the contact with SuperOx.
 - Roland has contacts in New Zealand.
 - A question was raised about whether other TCPs have multiple sponsors who are market competitors. The HTS TCP allows for Sponsors that could be competitors.
 - WP03-IEA publications
 - The EUWP requires a two-page document that summarizes the previous year's activities. **Action Item:** The task managers will complete this for Presidium review and send to the TCP once complete.
 - WP04-Dissemination/ documents/ tools
 - HTS as a disruptive technology

- Edits to consider include:
 - Some challenges to include in this document are first costs and repairability are challenges
 - Much progress has been made on cryogenic and vacuum systems for cables, so may be less of a challenge now than before
 - The current organization of the document's arguments could be restructured; HTS is disruptive because the benefits of HTS success in one application area could have spillover and even unforeseen benefits in other areas (a technological advancement in one application area may not have much value to that particular application but could be immensely valuable in another)
- **Action Item:** Members will provide any additional comments by Feb 4
- **Action Item:** The task managers will draft the 2021 Annual Report
- The Microsoft Teams platform offers a way to organize and share files. There are still some technical issues to work through to see if this is a viable option. **Action Item:** Energetics will continue to investigate this as a file sharing option.
- Discuss future action 2022 activities
- WP05-Events&Conferences
 - ASC 2022, Honolulu, Hawaii, USA, 23-28 October
 - Abstract submission opens 31 January 2022
 - Abstract submission due 23 March 2022
 - Suggestions include the HTS readiness map
 - Disruptive technology paper
 - Discussion: The participants for these conferences are already convinced about HTS's potential; the TCP could discuss other conference possibilities.
 - Attendance was quite high in previous special sessions, and there is value in providing them with our high-level TPs to support their research rationales and remind them of who we are.
 - Most of EUCAS and ASC participants are likely not very familiar with our TCP, so there is value in presenting who we are there
 - **Action Item:** The Presidium will discuss this opportunity further to refine the value proposition for attending and develop a go/no-go decision
 - EUCAS 2023, Bologna, Italy, 3-7 September, 2023
 - We can discuss this more next year.
 - Discuss if there are other meetings
 - **Action Item:** Members are encouraged to submit ideas for additional conferences with the right audiences to hear about HTS developments
- WP06-TCP meetings
 - There will be a virtual Spring meeting and potentially a Fall in person meeting. **Action Item:** the task managers will follow-up with KEPCO to determine if they could still offer a Fall in-person meeting.

- WP07-Expenditure planning
 - Contingent on travel to meetings
- Open Discussion and Final Remarks
 - No other discussion was mentioned.
- End of ExCo Web-Meeting