

IRIS-HEP Exec Board - 12 Dec 2022

ZOOM Meeting:

<https://princeton.zoom.us/j/93827101876?pwd=S3FrRk9hekdWeVA3K25ZdEhtck1lQT09>

Present

Exec Board - Peter, Mark, Brian, David, Heather, Rob, Matthew, Gordon

Others - RobT, Oksana, Alex

Apologies - Floe

Agenda

- Announcements
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- Quarterly Report
 -  2022-11-IRIS-HEP-Quarterly-Report
 - Inputs due Dec. 21
- Steering Board Meeting
 - Dec. 13 - <https://indico.cern.ch/event/1134406/>
 - Plan is to have quick intro talk from me - highlights we should add:
 - Highlight 1...
 - Second talk will be on the strategic plan
 - Schedule for comment (the ops programs in January)
 - One slide (?) on the 4 gaps we've identified
 - One slide on each of the 7 areas we have:
 - Analysis Systems
 - Reconstruction and Trigger Alg
 - Translational AI
 - DOMA
 - Facilities R&D
 - OSG
 - Training and Workforce Development
 - One Slide Each for the Grand Challenges
 - AGC
 - Data
 - Training (?)
 - Should we give them a copy of the PDF yet? Or promise it is coming?
 - Decision: we will postpone this SB meeting till Jan 9 (Monday) at the normal 6 pm time.

- Strategic plan
 - Previous plan - <https://arxiv.org/abs/1712.06592>
 - Aiming for 16 Dec 2022
 - <https://www.overleaf.com/project/6384af313eace33eb710c5d8>
- Coordinated Ecosystem workshop
 - Writing up a document to summarize the outcomes
 - Outline exists - adding people to write the sections
 - Need to get summaries:
 - Raw Resource Considerations
 - Scaleability
 - Analysis at Scale
 - Sustainability
 - Short paragraphs on the breakout sessions
 - Networking and Storage R&D
 - Workforce development
 - AI/ML Coordination
 - Analysis Facility and Evolution
 - GPU Alg Development
 - Rob - where are all the minutes for the meeting located? I'm going to want to hand those out when I send emails.
- "International" group meeting?
 - Gordon has reached out to Graeme - HSF
- Grand Challenges Update
 - Analysis Challenge
 - Demo day Dec 16: <https://indico.cern.ch/event/1218004/> (also in-person at CERN)
 - Get in touch if you are at CERN and would like to join for dinner
 - [GitHub Issue for 2022-12-16 demo day](#)
 - Training Challenge
 - [Grand Challenges | Institute for Research and Innovation in Software for High Energy Physics](#)
- Blueprint Update
 - Dashboard - https://docs.google.com/document/d/1h9h61vKs_OZktE20G_7GL5ESMKtpHiUaXpQc5YCpxu4/edit
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- Fellows
 - Fellows Surveys - one exit survey and one demographic survey
 - Sent out one last reminder
 - Mentor survey - we want to survey the mentors as well
 - Draft survey <https://docs.google.com/forms/d/1w9-5RSkrrvC0c8c50MUmOsD948g-iLAIKc94wVkJaok/edit>

- comments/additions/changes are welcome
- News item planning:
 - New freelance science writer update: Floe met with Allison Gasparini last week (being onboarded at Princeton this week, 12/5/22)
 - **IRIS-HEP News Stories Ideas**
 - Feature story on women and underrepresented minorities in software
 - ACTS as community software i.e., focus on the application of ACTS to other experiments.
- Project Management
 - Milestone Dashboard updated
 - Review milestones for Status, Completion and Materials
 - Milestone Dashboard - Rob Tuck to coordinate and email EB
 - <https://view.monday.com/961739797-a12769f13af02d67084ed68776b46030?r=use1>
 - Metric Dashboard -
 - <https://view.monday.com/1027216437-59b706eb9d24b136404f739c42a3db93?r=use1>
 - Track internal milestones
- Website Updates
- Action: Action Item Review

Upcoming Schedule

Date	What
12/12	EB Meeting
12/13	Steering Board Meeting
12/14	NSF Meeting?
12/16	AGC Demo
12/19	EB Meeting

General

Please fill in everything before the meeting if possible. If something needs discussion please add it to the agenda above.

- Grand Challenges
 - Analysis Challenge

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- Advisory Panel
 - Possible Topics:
 - Analysis Challenge
 - Data Challenge
 - Major SSL Expansion
 - Analysis Facilities
 - Impact beyond HEP (how organized should this effort be)
 - Scheduling?
 - Virtual
 - 2-4 hours one day, with a day of follow up.
 - Possible Schedule
 - 1 hour overview of where we are
 - 1.5 hours per topic
- Topical Meetings -
- Conferences - <http://iris-hep.org/conferences.html>
- Website
 - Adding a page for “Doing a PhD while working for IRIS-HEP”
 - e.g. with a list of all of the possible connections via the IRIS-HEP PI Institutions
 - Could be complex as the applications go through varied departments, institutes, schools at institutions
 - could document the possibilities at each University and the IRIS-HEP point of contact to discuss....
- IRIS-HEP Fellows
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- Rationalizing document management (esp. google)
 - IRIS-HEP google drive - https://drive.google.com/drive/folders/15NNQysi2wEyeUBYvj4TSjPArAx3Rh8_B
 - IRIS-HEP Analysis Team Drive - <https://drive.google.com/drive/folders/0AGLgj07ZVVVs3Uk9PVA>
 - Presentations by team members (both public and internal)
 - Website documents and howtos
 - Nice example of roles etc. <https://www.astropy.org/team.html#Ombudsperson>
 - Permissions
- Quarterly/Annual Reports:
 - https://drive.google.com/drive/folders/14vMiNT4RHHGWE5UzU7YDc_x01rFLyKWm

Area Updates

- ED/DED Update (Peter/Gordon):
- IA Update (Heather/David):
- DOMA Update (Brian):
- AS Update (Kyle):
- SSL Update (Rob):
- OSG-LHC Update (Frank):
- SSC/TEO Update (Sudhir):
- Blueprint Update (Mark):

Meeting Notes

New Action Items

Old Action Items

- 2021-09-20
 - Discussion with CERN Software R&D
 - Overview on info: <https://ep-rnd.web.cern.ch/topic/software>
 - CERN made the comment they really appreciated that IRIS-HEP was willing to contribute without having to be the sole leader of a project
 - Possible points of contact between us
 - PODIO - Experiment's EDM specified in yaml. Specification like this means that you can reason about the DM in other places, like ServiceX for extracting columns, and perhaps coffea for type information. The "software stack" project focuses on getting data from generator to (fast) reconstruction. With this work could we then start hooking up columnar tools without much friction, joining the two efforts?
 - Blueprint on AF, writ global
 - CERN Is looking into building a AF at their DataCenter
 - Other efforts ongoing in Europe as well
 - A lot has been learned since the last discussion, and many discussions are "confined to the USA" right now
 - Time for another AF blueprint meeting? But make it larger meeting and make sure it includes Europe (hold it jointly with the HSF? Locate it two places, one in Europe and one in the USA and also zoom?)

- Include people doing "different" things, like ALICE that plans to use the trains model
- Possible ideas for topical meeting talks
 - PODIO Data Model Work (AS)
 - CERN's work on highly granular calo reconstruction is trying to use ACTS as a model to build a more generic reconstruction toolkit for HG calorimeters. (IA)
 - The "Efficient Analysis" R&D area's roadmap talk, updated since it was first given in 2020. Perhaps paired with an overview of some of our AS work and the ecosystem (AS)
 - Efficient use of object stores for data in particle physics. How do you combine columns from different runs, etc. (mix/match columns, etc.) (AS)
 - Data Aware Compressions - different compression for different data, implementation, storage, usage (AS)
- ToDo Items
 - For IRIS-HEP:
 - Look into above topical meetings
 - IA: are the algorithms that are found in Patatrack useful outside of patatrack, could they be used in ACTS or other efforts? Is there a connection here that might be worth making?
 - OpenLab has a summer student intern program that is open to everyone, not just member states. Next call for applicants, we should circulate the request.
 - Include ROOT team in pleas for public versions of modern formats (a good sized MC format so everyone can do testing)
 - A map of all states our undergrad fellows are from
 - For CERN:
 - Chat with the Patatrack folks to understand how collaborations outside CMS might be built

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