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Welcome to the ACATVenueProp web



Aztec Feather Shield or "How to get out of this maze (mess) without re-inventing the wheel"

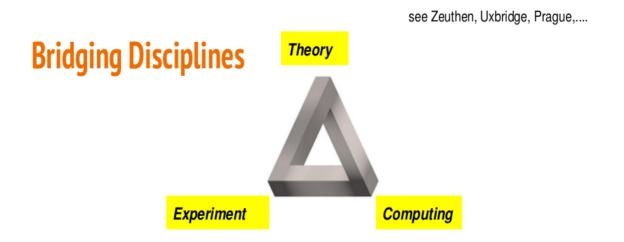
ACAT Guidelines Purpose

The main items to be addressed and how they should be dealt with in the preparation and running of an ACAT worksh discussed. In particular, the general organization as well as the role and responsibilities of each committee (IAC (Internatives), LOC (Local Organizing Committee) and SPC (Scientific Program Committee) are presented.

ACAT goals

Let's first recall the main goals that have motivated the creation of the workshop (see also presentations at the previous Zeuthen Uxbridge or Prague).

- Bridging Disciplines: Bringing together the 3 pillars sustaining modern research: computing, theory and exper
- Fostering discussions, initiating new collaborations and new projects



A Workshop, not a Conference

Discussion is a top priority

Cross talks

Round tables

Personal and informal discussions

ACAT goals 3

Organization Principles: To FIRE

Transparency, Flexibility, Innovation, Responsibility, Efficiency

- Transparency: initiatives should be reported to "the Board" before hand.
- The Flexibility of a workshop, adaptive format and coordination (depending on the venue and local circumstant
- Innovation: focusing on bringing new scientific topics and on improving the way participants communicate an ideas
- Responsibility: who does what, who is responsible for what
- Efficiency: based good communication between the organizers

Workshop date and venue

- The ACAT periodicity is 18 months.
- The date should be selected depending on conference rooms and lodging availability. The date should be chose account other scheduled workshops which may interfere with ACAT as well as the date of the various holiday participating countries.

To do so, it is useful to make a table of workshops/conferences close to the ACAT expected dates (e.g. ACAT 2017).

Date start	Date end	Name	City	Country Links
2017-09-25	2017-09-29	RADCOR 2017	St Gilgen	Austria
07 Aug 2017	12 Aug 2017	Lepton-Photon 2017	Guangzhou	China

Workshop Format

The workshop format is quite flexible and can be adapted to the specific venue and local circumstances:

- Usually ~ 5 days (one possibility is to have it over a week-end, the social event being on a Sunday) ...
- Plenaries in the mornings
- 3 parallel sessions(one per track) in the afternoons

Discussion on the possible ACAT dates (e.g. ACAT 2017):

Date start	Date end	Comments
2017-08-21	2017-08-25	During usual European summer holidays, August would be a first for ACAT
2017-08-28	2017-09-01	LOC Chair prefered due to US holidays (4th), but UK Bank Holidays (28th), Teaching duties
2017-09-04	2017-09-08	teaching duties in some US universities

IAC, LOC, SPC information and communication tools

- The ACAT workshops list(see also the Inspires list) marks the history of the series. Listed workshops may see example for the organization of future ACAT workshops.
- Preparatory meetings
 - ◆ Preparation Videoweb meetings will be scheduled at the beginning of the workshop organization (ever months). For example the preparation meeting for 2017 Seattle workshop is available here ☑.
 - ♦ The Vydio videoconference meeting installed at CERN will be used for the regular meeting. Particip registered and must download the Vydio application. Non-CERN members can be invited a guest part
 - ♦ If necessary scheduling extraordinary meetings may go through Doodle.
- Dedicated mailing lists are made available using the e-groups CERN system: e.g. ACAT-iac, ACAT-spc, ACAT-tc_1(2,3) (Track coordinators) and more.

Chairs

- International Advisory Committee (IAC): David Britton david(dot)britton(at)glasgow.ac.uk
- Local Organizing Committee (LOC): to be announced for each workshop. For the 2017 Seattle workshop: Got gwatts(at)uw(dot).edu
- Scientific Program Committee (SPC): Axel Naumann axel(dot)naumann(at)cern(dot)ch

Chairs 6

ACAT Board

The group of 3 chairs is called "the Chairs" and forms the "Board".

Members: the 3 chairs: IAC, SPC, LOC.

Operation

- Decisions are Collegial.
- Formal representation of ACAT. Initiatives should be reported to the Board before action.

Main Tasks: overall coordination

- Invitation of the SPC members and track coordinators
- Final program decision, bulletin approval before mailing.
- Financial support decision and formal invitation of the plenary speakers

ACAT Board 7

Editorial Board

Membership:

• The Board + track coordinator liaisons

Editorial Board 8

IAC, International Advisory Committee

- IAC members are invited by the IAC chair in agreement with the SPS chair after IAC consultation.
- IAC is consulted before final major Board decision.
- IAC members are selected for their expertize on one of the workshop core track topics.
- IAC membership is updated after every workshop so as to keep an (pro)active IAC.
- The LOC chair becomes a de facto IAC member.

Expertise and Responsibility

- IAC members have a global knowledge about the whole ACAT organization.
- IAC members have a clear and up-to-date view on all or a part of the major topics related to "their" track.
- Scientific excellence, of course, prevails over any other considerations.

In addition, they accept the following responsibilities:

- 1. To advise the Board on topics, (plenary) talks, speakers and general organization issues.
- 2. Each member belongs to a given track 1, 2 or 3 and acts as a track adviser
- 3. Representation ad personam: members do not represent their field, organization or country. A fair balance on t members between tracks, regions and genders should be enforced.
- 4. To widely advertise by any means the workshop through their own connections.
- 5. To support the LOC in securing external sponsorship (research organization, industry, ...).
- 6. To referee abstracts and papers during the reviewing process, when requested by the editorial board.

IAC Membership

• IAC ACAT is shown on the most recent ACAT workshop page.

Scientific Program Committee (SPC)

- the SPC chair is invited by the IAC chair
- the other members are invited by the Board:

Members:

- The Board
- 3 x 3 track coordinators
- 1 IAC member: Relations with the industry (SPCI)
- 1 IAC member: Outreach and education (Students and Professors, tutorials, general public presentation, press)
- 1 IAC member: Website: Indico (SPCW)

Main task:

- To manage the abstract reviewing process for parallel (highlight talks, regular, posters) and propose plenary ta
- To setup the sessions: grouped by topics, select the session chairs, organize track and plenary round-tables
- To issue the formal invitation for parallel speakers after the Board final program approval.

Track coordinators

• Members are invited by the Board on IAC advice, in total 3-4, out of which 1 from the LOC and a liaison: over responsibility over the track, connection with the SPC chair and the Board

Tasks:

- 1. to propose to the Board the main topics to be addressed during the workshop related to their track.
- 2. to propose to the Board the plenary speakers related to their track
- 3. to suggest presentations from the main leaders of their track. Special parallel talks "Highlight talks" maybe schoverlapping each other so that all participants can attend all of them.
- 4. to select the submitted talks (plenary, parallel, poster).
- 5. to propose and manage round tables or special events (demos, tutorials, ...)
- 6. finally and this is mandatory, to attend the workshop and manage the running of the parallel sessions (schedule chairs, talk uploads...). They will be helped by the local organization.

Track coordinators 11

Scientific program preparation

- For each track, the 3 track liaisons must reach a common agreement on the submitted or suggested talks. When not reached, the decision is taken by the Board.
- The track scientific program proposal is then presented to the Board and then submitted to the IAC.
- Invitations involving financial support are discussed by the Board and under the strict final approval of the LO
- To minimize the nb of mails sent to "acat-iac" mailing list, each track have its own mailing list for communication the track coordinators (acat-tc_1,2,3)

Local Organizing Committee (LOC)

Membership:

- Members are invited by the LOC chair and presented to the Board.
- One track coordinator for each track ---> 3 track coordinators

Main task

- The LOC takes in charge the practical organization of the ACAT workshop, including the budget (including ir logistics, timetable, posters, webcast, proceedings, social events, mailing of the conf. poster and of the bulletin approval)...
- Budget management (visible by the Board)
- Relation with the industry (in liaison with the SPCI)
- Outreach, education, press (in liaison with the SPCE)
- Website management (in liaison with the SPCW)
- Visa and other assistance to the attendance

LOC members



Responsibility:

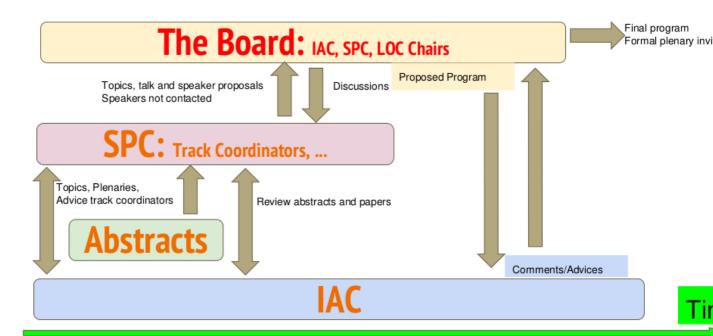
The Local Organizing Committee takes full responsibility for the financial organization of the workshop including the the proceedings, the banquet, the welcome party, the IAC meeting and the ACAT IAC dinner (usually ~ 20 people).

Budget

The Workshop Budget is prepared by the LOC and presented to the IAC and to the Board for approval. Alternative suppresented would the base line sources proved to be not successful. It is an important part of the LOI. However the Wor appropriations and spendings are under the full responsibility of the LOC chair and under the visibility of the Board. It to invite some students, some specific invited plenary speakers and a few developing country participants. Sponsorship organizations worldwide or companies is most welcome. They are managed by the LOC.

General view of the ACAT organization

ACAT Scientific Program Organization



Application to host an ACAT workshop

LOI: Letter of Intent

- The candidate (university/research organization) willing to organize a future ACAT workshop should provide, month before the date of a coming workshop, namely 19 months in advance of the expected workshop date, a addressing, at least, all the issues described in this document.
- The LOI should be sent to the ACAT IAC Chair who will make it available to the IAC members so that questi clarifications can be made ahead of the ACAT workshop.
- Each application will be presented to the IAC members during the regular IAC meeting held at each ACAT we
- After a detailed discussions within the IAC, the selection of the venue for the next workshop will be made by the during the IAC meeting organized at each workshop

The following topics will be addressed:

Presentations

- The venue attractiveness
- The main bidders: affiliation and past history in organizing similar events

Facilities

- 1 room (~ 200-250) for plenary sessions and 2 additional rooms (~100) for the parallel sessions. The size will participation estimates.
- Usually the place for the breaks is also used for the poster session so that during the breaks people can discuss
- In addition, a dedicated poster session is organized
- Optionally a showroom for the industry participation (if any)
- Internet connection (WIFI, ...), video conference...

Lodging

- The LOC should provide a recommended list of close-by hotels with mention on quality, distance and access t venue and price.
- The LOC may negotiate group prices with some hotels.

Proposed Date

- Related to other local events or special conditions
- Taking into account other international events (conferences, workshops, meetings)

Rough Timeline

• Compatible with local/general constraints

Estimated Budget

- Fees including room renting, lunch, breaks, banquet, IAC dinner, conference equipement renting/buying,se responsibilities
- Expected Local/National/International support.

ACAT Logo



Original Aztec feather shield, ACAT logo available in the "Attachments".

Re-designed logo available here and as a svg file in the "Attachments".

ACAT Logo 16

ACAT Motto/Slogan

each workshop has a special interest or highlighted topic.

• For example, ACAT 2017 the moto was: "AI Reloaded"

the following sentences was inserted in the landing page for explanation of the motto:

The ACAT series was originally called AIHENP (Artificial Intelligence in High Energy and Machine Learning, long existing within our field, now has a very active community outside As a result, more progress than ever has been made driving Machine Learning forward.

This year motto "AI reloaded" is a wink to the famous S-F movie "Matrix reloaded" where hu digital characters live in a computer (the matrix) simulated world. Large computing system data analysis and simulation are central topics to the workshop although in physics and no environment. This is also a "reload" here as the series started with AI as the main three is just putting AI in a spot light. All the regular themes of the workshop will be address

ACAT is a forum for discussing all types of cutting edge uses of computing in physics, we plenaries and panel discussions focusing on Machine Learning at this edition of ACAT.

ACAT Motto/Slogan 17

ToDo list and Time line

• see for example ACAT 2019 time-line (in preparation) here

ToDo list and Time line

Information and Announcements

Conference Poster

Websites

• Indico site: to be announced e.g. ACAT 2017 conference web site

Mailing lists

- The ACAT mailing list is currently kindly managed at CERN by F. Carminati
- IAC mailing list acat-iac(at)cern(dot)ch
- Tack mailing lists:
 - 1. Track1 acat-tc_1@cernNOSPAMPLEASE.ch
 - 2. Track 2 acat-tc_2@cernNOSPAMPLEASE.ch
 - 3. Track 3 acat-tc_3@cernNOSPAMPLEASE.ch
- Advertisement and information
 - 1. A "past ACAT participants" mailing list is available from the same CERN mailing list system, please
 - 2. Post mail addresses of most of the physics institutes are available here.
 - 3. Additional mailing lists provided by IACC members can either be merged with item 1 or bulletin and can be forwarded by the IACC members.

Bulletins

• 3 bulletins are emailed to the "past participants" mailing list.

Visa

The Visa handling and management should be started much in advance, if the host country requires them. It is an involution process for certain countries.

Proceedings

Since the London workshop, the proceedings are published by IOP with open access for around 3000 sterling pounds. organizers are in charge of the preparation of the proceedings, they should contact directly the publisher. see the proceedings the previous AIHEP/ACAT workshops from Inspire.

Social Event(s)

- Social event(s) are organized for the participants and for the accompanying persons. They are an important ing success of a workshop. People gets to know each others and collaborations are often initiated during these eve
- The welcome cocktail, the banquet and the half-day visit/tour in the middle of the scientific program are usual possible other events can be scheduled like concert, art manufacturing, ...

Workshop Fees

- The fee should be moderate so that local people and foreigners who have to cover higher travel and lodging ca
- The fee should be charged preferably by bank transfer or credit card. Cash should be exceptional and preferable Euro.

WebHome < ACATVenueProp < TWiki

- The workshop fee covers the following items: the conference materials, the breaks and refreshments, the welcome the banquet, the local transportation (if needed) and the basic social event. Additional offers can be made optical additional cost.
- A special fee should be proposed for accompanying persons.
- The LOC may propose lower earlier registration fee (before a precise dead-line date) and regular fee for aftter on site registrations as well as students fee.

Workshop Fees 20

Tutorials/School/ Training

Specific tutorials for students or young researchers or training lectures on (ROOT, Geant4, Form, CUDA, many-core s Cloud, ...) can be organized based on:

- The nb of interested/potential students?
- The availability of trainers/professors

They can be organized before, after the workshop or one of the rare free evenings.

Public Presentation, Science cafe, ...

Benefiting from the availability of world experts attending ACAT, public lecture(s) can be organized aside of the ACAT it-self by a major university, a research organization or the LOC. The ACAT participants are invited.

Host country involvement

ACAT has been organized in many different countries. The goal is to bring to the scientists and students of each count opportunity to attend ACAT and benefit from meeting world-wide experts. Therefore, the organization of the worksho involve the main universities and research centers of the country as well as the industry leaders. A good way is to have institution represented in the LOC.

Political Support/endorsement

- Beyond the official support from the main organizers institution directorate, it is important to get the support for governmental official in charge of Research.
- Presentations from officials during the opening (or closing) ceremony give more visibility to the workshop and valuable although general information about the host country research and educational situation.

Attendance

In general ACAT gathers ~ 100 participants. A good target number would however be more around from 150 up to 20 tracks). The largest ACAT attendance reached 250 participants for the 2nd in the series in 1992. There was a strong participant the industry.

• The number of local participants is a important criterion in the selection of the host country.

Attendance 24

Industry/Company Participation

Exhibition

- The ACAT workshop is a good opportunity for the host country to promote the local computing activity.
 - ♦ A product/service showroom can be accommodated at the workshop venue.
 - ◆ Presentations (plenaries or parallels) can be scheduled as long as they are of great interest to the audient mere commercial talk. The final decision lies on The Chairs.
- Some foreign county companies will also be interested to presenting their products to the Host country commu

Sponsoring

Sponsoring from the industry is welcome

• the ACAT 2014 "Call for sponsors" was drafted as follows ::

Computing activity in scientific research has always been closely related to the progress in the computing industry and recently, with the IT companies. This has been a win-win cooperation; research cannot be performed without the great industry on CPU design, for example, and on the other hand the WEB was invented for HEP as well as the WIFI for as ACAT workshop series is, therefore, welcoming the participation and sponsorship of the industry. **Three levels of invergoosed, please contact the organizers for the associated fees.**

- Platinum
 - Possibility of one oral technical presentation at the workshop. Based on abstract, the Programme Com select as plenary or parallel presentation, if high content of scientific and or technical information in li interests of the workshop is proposed. No advertisement during presentation is allowed.
 - ♦ Rollup in Foyer
 - ◆ Table with 2 chairs in the Foyer
 - ♦ Introduction at the dinner
 - ◆ Company logo on the ACAT website, programme leaflet and possibly on other materials
 - ♦ Right to giveaways
- Gold
 - ♦ Rollup in Foyer
 - ♦ Table with 2 chairs in the Foyer
 - ♦ Introduction at the dinner
 - ♦ Company logo on the ACAT website, programme leaflet and possibly on other materials
 - ♦ Right to giveaways
- Silver
 - ◆ Table with 2 chairs in the Foyer
 - ♦ Introduction at the dinner
 - ♦ Company logo on the ACAT website, programme leaflet and possibly on other materials
 - ♦ Right to giveaways

Scientific Program

ACAT (previously AIHENP) stands for Advanced Computing and Analysis Technologies in Physics Research. It shownew methods and technology advances that became available or got improved since the previous workshop. The follow must be updated for each workshop.

Beyond HEP

ACAT is meant to address computing issues in physics research in general, although most of the participants are from issues, problems and solutions are more and more visible between many research fields. Contributions and participation non-HEP research like astrophysics, nanotech, bio-physics, genomics, ... are most welcome. ACAT may focus on shar between these various fields.

The track conveeners and advisors are selected by the

Track 1: Computing Technology for Physics Research

Coordinators: e.g.: ACAT 2017

- Niko Neufeld (liaison)
- Graeme Stewart
- Maria Girone
- Shih-Chieh Hsu

Topics

- 1. Languages, Software quality, IDE and User Interfaces
 - ♦ Languages (new C++ standard, Java, ...), Code Portability: using templates, toward Compiler
 - ◆ Software quality assurance; code reflection; documentation, performance and debugging tools
 - ♦ Computer system Benchmarking, beyond LinpackComputer system Benchmarking, beyond Linpack
 - ♦ IDE and frameworks
 - ♦ User Interfaces, Common Libraries.
- 2. Distributed and Parallel Computing
 - ♦ Multilevel parallelism
 - ♦ Distributed computing
 - ♦ GRID and Cloud computing
- 3. New architectures, many and multi-cores
 - ♦ Many-core
 - ♦ accelerator-based computing (GPU, etc)
 - ♦ High precision computing (hardware)
- 4. Virtualisation
- 5. Online computing
 - ♦ Advanced Monitoring, Diagnostics and Control
 - ♦ Scalable distributed data collectors
 - ♦ High Level Triggering (HLT)
 - ♦ Stream event processing & High Throughput Computing (HTC)

Track 2: Data Analysis - Algorithms and Tools

Scientific Program 26

Coordinators: i.e.L ACAT 2017

- Sergei Gleyzer (liaison)
- Georgy Golovanov
- Andy Haas
- Toby Burnett

Topics

- 1. Machine Learning
 - ♦ Neural Networks and Other Pattern Recognition Techniques
 - ♦ Evolutionary and Genetic Algorithms, Multi-variate analysis
 - ♦ Package Benchmarking
 - ♦ Automation of Science: Data to formula
- 2. Advanced Data Analysis Environments
 - ♦ Statistical Methods, Multivariate analysis
 - ♦ Data mining
- 3. Simulation, Reconstruction and Visualisation Techniques
 - ♦ Detector and Accelerator Simulations, MC and fast MC
 - ♦ Reconstruction Algorithms
 - ♦ Visualization Techniques; event displays
- 4. Advanced Computing
 - ♦ Quantum Computing
 - ♦ Bio Computing: life process simulation, brain simulation, Quantum biology
- 5. New topics ???

Track 3: Computations in Theoretical Physics: Techniques and M

Coordinators: i.e.: ACAT 2017

- Ayres Freitas (liaison)
- Stephen Jones
- Fukuko Yuasa
- TBD

Topics

- 1. Automatic Systems
 - ♦ Automatic Computation Systems: from Processes to Event Generators
 - ♦ Multi-dimensional Integration and Event Generators
 - ♦ Intensive High Precision Numerical Computations: Algorithms and Systems
- 2. Higher orders
 - ♦ One-loop event generators
 - ♦ Multi-loop Calculations and Higher Order Corrections
- 3. Computer Algebra Techniques and Applications
- 4. Computational physics, Theoretical and simulation aspects
 - ♦ Lattice QCD,
 - ♦ Cosmology, Universe Large Scale Structure, Gravitational waves
 - ♦ Nuclear physics N-body computation,
 - ♦ Plasma physics,
 - ♦ Earth Physics, climate, earthquakes

Scientific Program Preparation

General workshop format (e.g.: ACAT 2017)

A simple proposal just to estimate the number of talks that can be housed. To be tuned by the local organization.

Time	Monday	Tuesday	Wednesday	Thursday	Frie
08:00 - 09:00	Registration				
09:00 - 09:30	Opening	1 talks 25'+5'	1 talks 25'+5'	1 talks 25'+5' on ML	1 talks 25'+5' or
09:30 - 10:30	2 talks 25'+5'	2 talks 25'+5'	talks 25'+5' 2 talks 25'+5' Plenary Round-		Plenary Diversi
10:30 - 11:00	Break				
11:00 - 12:30	3 talks 25'+5'	3 talks 25'+5'	3 talks 25'+5'	3 talks 25'+5'	T.1-3 Summary Conclusions 20
12:30 - 14:00	Lunch				End of the work
14:00 - 18:00	Parallel sessions	Parallel sessions	Tour	Parallel sessions	
14:00 - 14:30	T.1 Highlight 25'+5'	T.2 Highlight 25'+5'		T.3 Highlight 25'+5'	
14:30 - 15:00	T.1 round-table 30'	T.2 Round-table 30'		T.3 Round-table 30'	
14:00 - 15:00	3 talks/other 2 tracks 15'+5	3 talks/other 2 tracks 15'+5		3 talks/other 2 tracks 15'+5	
15:00 - 16:00	3 talks/track 15'+5'	3 talks/track 15'+5'		3 talks/track 15'+5'	
16:00 - 16:45	Break				
16:45 - 18:45	6 talks/tracks 15'+5	6 talks/track 15'+5'		6 talks/track 15'+5'	
19:45	Welcome Cocktail	Social networking	IAC session/dinner	Banquet	

- The so-called "Highlight" talks are special talks on which the organiser want to put more emphasis. They are learning parallel session talks. They are dedicated to a given track and therefore in a parallel session. In the mean other 2 tracks regular parallel session talks are running. So for the first hour of each afternoon session there are talks running at the same time that 3 regular parallel session talks. So a participant may attend all highlight talk conference.
- The round-table following the highlight talk may cover the main topic presented in the highlight talk or be different tracks may prefer to have a 1 hour round table instead of the highlight talk and the short round-table.
- The everyday end of the parallel session may depend of the total number of contributions and may end at 18: of
- Poster session(s), Tutorials, Public talk, Industry sessions are not yet included in this preliminary draft, some need to be scheduled ...

Total number of talks: (e.e. aCAT 2017)

Talks	Duration	Nb/track	Total
Opening talks	15'		4
Plenary talks	25'+5'		22
Highlight talks	25'+5'	1/track	3
Round-table plenary	60'		2
Round-table Parallel	30'	1/track	3
Parallel talks	15'+5'	33/track	99
Summary+conclusion talks	25'+5'	1/track	4
Total talks/round-tables			137

Plenary talks

Number of plenary talks

• from the above ~ 22

Plenary talk selection

If you wish to propose talks for the plenary sessions, feel free to add your suggestions to this google doc. The IAC w what are the best suited proposals for the next ACAT. The main criteria include:

- level of general interest for the 3 tracks attendance (1 for mainly 1 track interested, 2: for any 2 tacks and 3: fo 3 is prefered.
- how didactic it is, to be understood by a large part of the whole attendance (even if some sections can be more
- New and hot topics should be preferred.
- At least 2 talks on the specific ACAT motto (AI)
- At least 1-2 talks on topics outside HEP
- Is the speaker requiring to be supported (fee, travel, lodging, ...) by the ACAT budget ?
- The overall scientific program must be balanced over the 3 track topics, the speaker's region and the gender.

Talks submitted by participants can be promoted to the a plenary session when appropriate.

Following the discussion, a priority listed selection will be prepared by the SPC. The final decision will be arbitrated by the SPC thair.

Plenary talk proposals (e.g. ACAT 2017)

Current list of plenary proposals (from Google Docs). Columns can be sorted (tracks, ...)

Nb	Topic	Speaker	Suggested by	Track	Comment	Votes	Invited	A
01	D-WAVE - Quantum Computing: link	Colin Williams	A.Neumann	1		12	Yes	Ac

ACATVenueProp Web Utilities

- - advanced search
- WebTopicList all topics in alphabetical order
- WebChanges recent topic changes in this web
- WebNotify subscribe to an e-mail alert sent when topics change
- WebRss, WebAtom RSS and ATOM news feeds of topic changes
- WebStatistics listing popular topics and top contributors
- WebPreferences preferences of this web

This topic: ACATVenueProp > WebHome Topic revision: r12 - 2021-11-18 - DavidBritton

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