

ALCC

Americas' Linear Collider Committee

Andy White
University of Texas at Arlington

$$\text{ALCC} = \text{LCSGA} \oplus \text{ALCPG}$$

LCSGA

- Represent and advocate a linear collider project to Americas funding agencies;
- Represent the Americas position in the ILCSC/LCB through the Americas members of ILCSC/LCB;
- Advocate for R&D on detectors and accelerators to Americas funding agencies.

ALCPG

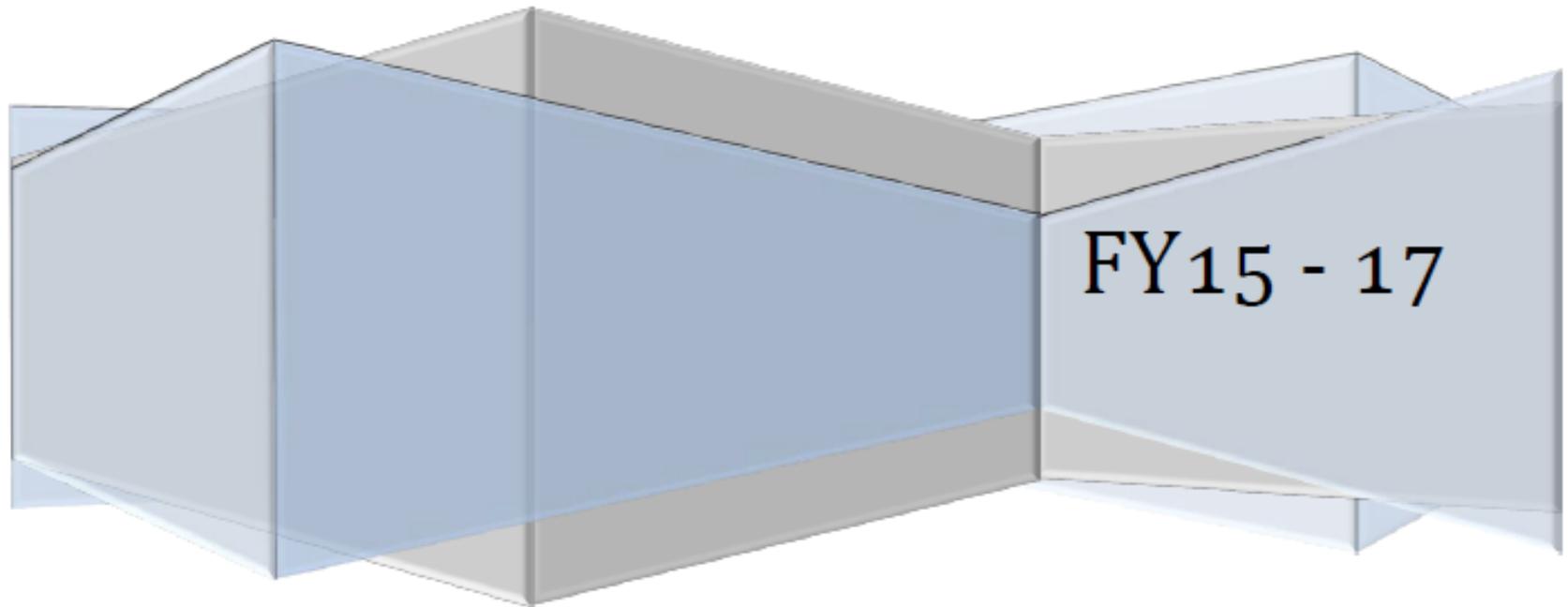
- With international partners, develop the physics case for a linear collider project;
- Advocate and coordinate detector R&D appropriate for linear colliders within the Americas and with international partners;
- Explain and advocate for linear collider research in the broader physics communities in the Americas;
- Stimulate the development of realistic detectors for linear collider experiments, and foster the appropriate international bases for detector collaboration;
- Organize linear collider workshops within the Americas and coordinate with the WWS and organizers of workshops elsewhere.

ALCC formed in June 2013

The current membership of the American Linear Collider Committee (ALCC) is as follows:

Name	Affiliation
<i>J.Bagger</i>	TRIUMF
<i>N.Lockyer</i>	Fermilab
<i>D.MacFarlane</i>	SLAC
<i>L.Merminga</i>	TRIUMF
<i>H.Montgomery</i>	JLab
<i>H.Weerts</i>	Argonne, <i>chair</i>
<i>J.Brau</i>	Oregon
<i>G.Wilson</i>	Kansas
<i>M.Harrison</i>	Brookhaven
<i>M.Ross</i>	SLAC
<i>D.Rubin</i>	Cornell
<i>J.Lykken</i>	Fermilab
<i>A.White</i>	UT Arlington
<i>P.Grannis</i>	Stony Brook
<i>D.Denisov</i>	Fermilab

International Linear Collider R&D Request



DETECTOR R&D BUDGET

Activity	Annual Rate /FTE	FY15		FY16		FY17	
		FTEs	Request (FTEs + M&S) \$K	FTEs	Request (FTEs + M&S) \$K	FTEs	Request (FTEs + M&S) \$K
SiD physics simulation studies	120	2.0	240	3.0	360	3.0	360
SiD detector optimization studies	120	4.0	480	4.0	480	4.0	480
ILD TPC/detector optimization	120	1.0	120	1.5	180	1.5	180
Vertex Detector R&D			150		200		200
Silicon Tracking R&D			150		150		100
Calorimeter (HCal, ECal, FCal) & Muon Detector R&D			400		400		250
Beamline Instrumentation R&D			25		35		40
Electronics R&D			40		40		40
TOTAL DETECTOR R&D			1,605		1,845		1,650

ENGINEERING BUDGET

Activity	Annual Rate /FTE	FY15		FY16		FY17	
		FTEs	Request (FTEs + M&S) \$K	FTEs	Request (FTEs + M&S) \$K	FTEs	Request (FTEs + M&S) \$K
Mechanical Engineering	250	1.5	375	2.5	625	5.0	1,250
Electronics Engineering	220	1.0	220	2.0	440	2.0	440
Software Development	200	2.0	400	2.0	400	2.0	400
Tech Support	150			2.0	300	4.0	600
Equipment – large prototypes							1,500
TOTAL ENGINEERING			995		1,765		4,190

Representing ALCC, Harry Weerts and Mike Harrison met with DoE last week:

1. P5 laid out the opportunities enabled by ILC
2. In communications with new HEPAP accelerator subpanel; DOE HEP is realizing that ILC is the only realizable option for a future Energy Frontier machine with a reasonable cost and time scale
3. DOE is also learning how to interact on government level with Japan i.e. what preparations have to be done i.e. meetings need to be well prepared and decisions agreed upon beforehand.
4. Jim Siegrist is willing to help setting up/preparing meeting between Lynn Orr and deputy MEXT minister Tsuchiya, with counter parts in MEXT about ILC
5. There is also a realization that this process is very long
6. Jim wants to use SCRF R&D (at Fermilab), improving Q0 and gradient as a contribution to ILC
7. Try to identify areas where cost can be reduced, do US R&D on that and use that as contribution to ILC (Jim's suggestion)
8. Mike and Harry tried to convince them that more activity is needed.
9. No decision by DOE HEP for several months on US ILC funding
10. Jim wants to talk to subpanel and re-introduce SRF R&D (for ILC) as an important contribution from US to ILC.
11. Bottom line: we have \$1.1M for accelerator and zero for Physics & Detector. Will stay that way for a while

What can we do?

- ⇒ Keep up the conversation with DoE
- ⇒ Do everything we can to facilitate setting up the framework for negotiations
- ⇒ Continue to grow the SiD Consortium
- ⇒ Support our Japanese colleagues as much as possible by attending meetings such as ALCW2015