



Young Physicists Forum (YPP)

Balancing and Building the Field Working Group

Snowmass 2001

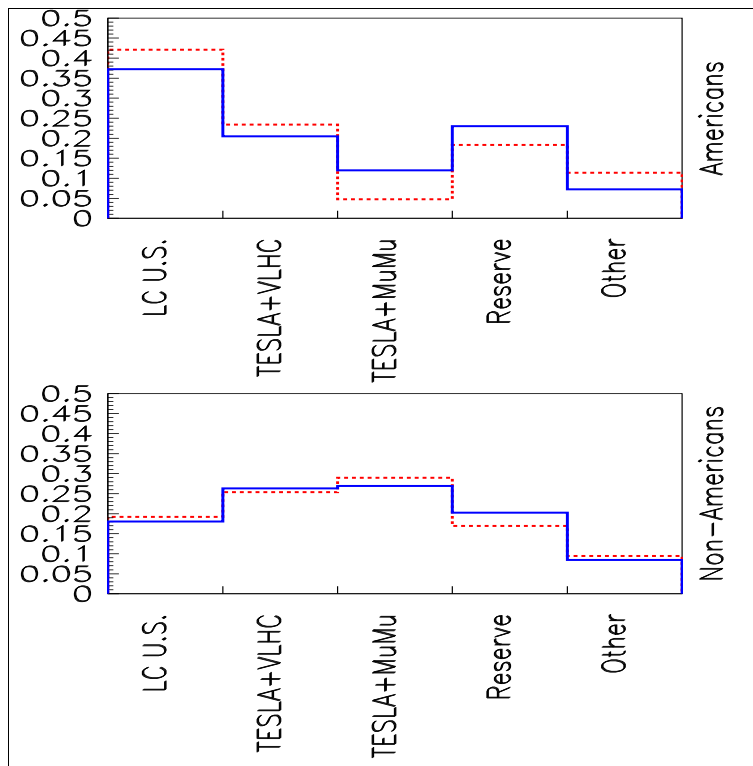
Charge:

- How should we define the HEP field for the next 20 years?
- What are the physics questions we should address, and what are their priorities?
- What future facilities are needed to address our physics priorities?
- Do we have the number and type of scientists to accomplish our goals?

Organizers:

Robin Erbacher (Fermilab), Bonnie Fleming (Columbia University), Chris Potter (University of Oregon), Zack Sullivan (Fermilab)

YPP Survey Results:



New facilities. 'Young' (solid) and not (dashed).

YPP Town Meeting Comments:

- *We should take the path that gets us the best physics on the shortest timescale - regardless of location.*
- *A neutrino factory has the advantage of being a stageable facility.*
- *The most realistic option on the list is TESLA.*

YPP Town Meeting Votes:

What future flagship should we build? LC (35), VLHC (5), Muon Collider/Neutrino Ring (19), Abstain (10)

Conclusions

- HEP should communicate more with Nuclear and Astrophysics but should not join funding efforts.
 - EWSB is the most important topic for the field.
 - Now is the time to decide on the next major facility.
 - The next future facility should be a linear collider, regardless of location.
 - Too many young physicists are leaving the field due to a lack of permanent positions.
 - We need more phenomenologists and R&D experimentalists.
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For more information on the YPF and the YPP survey, see

Snowmass 2001 Young Physicists Forum Proceedings (forthcoming)

T. Adams et. al., *Young Physicists' Forum*, hep-ex/0110027

B.T. Fleming et. al., *Results of the Survey on the Future of HEP*, hep-ex/0108040