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USCMS Education

• QuarkNet - National Science Program
• National HEP Education and Outreach Booklet
• USCMS and CMS Initiatives
  – REU – Research Experiences for Undergraduates
  – RET – Research Experiences for Teachers
  – USCMS Fellows
  – Support for significant regional programs
  – Detectors and displays
• Websites
• Acknowledgements
QuarkNet

- We are now starting our 3rd Year
- We have 36 centers participating, of which 18 are affiliated with US CMS groups
- Goal is to reach 60 centers by the 5th year
Current QuarkNet Centers
QuarkNet Activities

• 2000
  – Mentor orientation, Spring
  – Summer Institute for lead teachers, Fermilab
  – 8-week and 3-week summer programs at Centers
  – Fall Institute for lead and associate teachers, Fermilab
  – Participation in AAPT national meetings
QuarkNet Activities

• 2001
  – AAPT Meeting San Diego (many presentations)
  – QuarkNet Mentor Day, Spring
  – Run II Discovery, live national webcasts by four teams of high school students, Spring
  – Summer Institute for lead teachers, Snowmass
  – Snowmass education and outreach program
  – 3-week Modeling Workshop at Arizona State University
  – 8-week, 3-week, and 1-week programs at the Centers
National Education & Outreach

• Booklet on HEP Education and Outreach Activities (Bardeen, Barnett, Huston, Ruchti)

  • Documentation on 120 HEP sites in the US
  • Important reference source for teachers, educators, program coordinators, physicists, and legislators and government and private sector sponsors
USCMS and CMS

- REU: Research Experiences for Undergraduates – at CERN. (NEU/UM)
- RET: Research Experiences for Teachers – at CERN (NEU)
- RET: At Notre Dame (HCAL)
- CROP: Cosmic Ray Observatory Project (Nebraska)
- Summer Physics Program for Young Women (Rochester)
- USCMS Fellows: Teachers at Iowa and Iowa State
- Hand-held Cosmic Ray Detectors:
  - PA 5 at CERN for the visitor gallery
  - National Air and Space Museum, Washington DC
  - Fermilab Education Office/Lederman Science Center
Websites

- http://quarknet.fnal.gov
- http://cmsdoc.cern.ch/cms/outreach.html
- http://uscms.fnal.gov
- http://quarknet.nd.edu
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