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Mission
— Inform the AAPT membership about current techniques for the construction, maintenance, and utilization of instructional apparatus.
— Seek new and forgotten techniques for presenting ideas in physics through lecture demonstrations and laboratory exercises.
— As authorized by the Executive Board, conduct events such as the apparatus competition to recognize, reward, and publicize contributions to physics teaching through lecture demonstrations and laboratory exercises.

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— Identify new developments in educational technology and new applications of educational technology to physics teaching and learning;
— Communicate these new developments and applications to the AAPT membership through a variety of means, including print and electronic publications, workshops, and sessions at national and regional meetings;
— Conduct competitions, as appropriate, to recognize, promote, and reward worthwhile contributions to the uses of educational technologies for physics education; and
— Coordinate with other area committees, organizations, and institutions in the development and dissemination of new ideas for the use of various educational technologies in physics education.

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Mission
— To promote interest in the history and philosophy of physics among the Association members.
— To work towards the preservation and deepening of a historical perspective in physics education at all levels.
— To develop increased sensitivity among members to the need to preserve careful records of current happenings.
— To cooperate, as appropriate, with AIP's Center for the History of Physics and APS's Forum on the History of Physics.

Committee on International Physics Education

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Mission
— Provide a channel of communication between the membership of AAPT and physics teachers and students in other countries.
— Facilitate active cooperation between AAPT, the International Commission on Physics Education, and other international groups concerned with physics education.

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Mission
— Seek more effective means of recruitment and retention of minority members of society in physics classes and physics related careers.
— Seek methods of aiding minority physicists to overcome barriers to career development.
— Communicate to the AAPT membership and to the community at large the findings of the committee, through approved AAPT channels.

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Mission
— Provide a common meeting ground and opportunities for communication for high school teachers of physics and astronomy.
— Seek ways in which the AAPT can be of assistance to high school teachers, providing a channel of communication between the high school teachers and the Executive Board, Executive Office, Council, and membership of AAPT.
Mission
— Serve the teachers of K-8 students and improve the physics learned in grades K-8.
— Work with the college teachers whose students are the future teachers of children in grades K-8.
— Sponsor sessions and workshops on programs and curricular materials for pre-service teachers in grades K-8.

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Mission
— Provide a common meeting ground and opportunities for communication for two-year college teachers of physics and astronomy.
— Explore topics of professional concern to two-year college teachers, including the framework of conditions and extra-classroom activities that affect the teacher and educational process.
— Cooperate with the High School and Professional Concerns Committees on professional topics of mutual concern.
— Cooperate with the Undergraduate Education Committee on courses and curricula and on matters related to articulation for students transferring between institutions.
— Make recommendations, through the Review Board and Executive Board, to the AAPT Council and membership, for activities that would be helpful to physics education and physics teachers.
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Mission
— Encourage and follow research on the teaching and learning of physics and related topics.
— Help keep the AAPT membership and the broader science teaching community aware of new and current understanding of how and why students learn, and ways of improving instruction, including the appropriate use of new tools and technologies.
— Encourage both the use of the outcomes of research and the doing of formal and informal research in the physics classroom and laboratory.
— Encourage recognition of research in physics education as a valid area of inquiry within physics departments.

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— Seek ways in which physics concepts and the importance of science instruction can be effectively conveyed to the public, of all ages and persuasions.
— Aid in keeping the AAPT membership informed of the importance of communicating science and an enthusiasm for science to the public, and of effective means for doing so.

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— To strengthen and maintain contacts with national organizations concerned with space science and astronomy and the teaching thereof.
— To provide AAPT members with a perspective on current space science and astronomy research through 'Frontiers in Space Science and Astronomy' sessions.
— To promote excellence in teaching astronomy by:
  a. Sponsoring hands-on workshops that introduce the latest in computer software and observational techniques taught in labs.
  b. Holding sessions that provide information on resources for teaching materials; on successful and unsuccessful curricula developments; on research in teaching; and on the interrelationships between astronomy and other disciplines.
  c. Working with sister committees to promote areas of joint interest.

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Mission
The role of the AAPT Committee on Teacher Preparation is to influence policy and activities within the AAPT that foster improvement of physics teacher preparation based on the research in physics learning and the physics teaching experience of the AAPT membership. The Committee will:
— Provide a forum and support the continued development of a strong and diverse coalition of institutions committed to using inquiry-based, problem-solving, and active-learning strategies in science courses they provide for secondary and elementary teachers of physics.
— Sponsor and co-sponsor sessions, workshops, and other activities to make AAPT members and the broader educational community aware of programs that produce teachers who better understand physics and how to teach it so that ALL students can experience physics as an important, engaging, and exciting activity.
— Offer assistance in the development of program standards and selection of curriculum for teacher preparation programs. Support AAPT sections in local or state efforts related to certification/licensure, program requirements, and physics content tests for teachers of physics.
— Increase communication, collaboration, cooperation, and joint sponsorship of interactions with other national organizations that have improving teacher preparation as part of their organization’s stated mission to share findings and experiences and to exchange constructive critical examination of the physics teacher preparation process.
— Develop a strong, working committee with wide representation from other area AAPT committees and liaisons from other organizations to expand and share the work of the committee in AAPT and beyond.

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— Seek more effective means of recruitment and retention of women in physics classes and physics-related careers.
— Seek methods of aiding women in physics in career development.
— Communicate to the AAPT membership and to the community at large the findings of the Committee, through approved AAPT channels.
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