

APR17-2016-020101

Abstract for an Invited Paper
for the APR17 Meeting of
the American Physical Society

How Academies use science to enhance global security and well-being.

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Science academies were originally created to facilitate science communication and later to recognize excellence. But in the last 20 years some 150 academies of science, engineering, and medicine around the world have united to cooperate in contributing to human welfare, by: 1. Providing evidence-based inputs to national, regional, and global policies addressing human needs, and 2. Conducting cooperative programs to increase the capacity of academies to provide such advice, and to better connect academies to publics and to policy makers. Examples: At the global level, 112 academies of science produce brief common statements on major global issues. They have also created an organization to provide in-depth reports on major issues such as a transition to sustainable energy systems, boosting agricultural productivity in Africa, and a guide to responsible conduct in the global research enterprise. Regional networks of those academies, in Africa, the Americas, Asia, and Europe conduct program on topics such as water, energy, engagement of women in science, and science education. They also help and mentor new academies.