



## Roles of International Organizations (by John Ellis)

Scientists from emerging countries frequently do not have large laboratory facilities in their own countries. International organizations are therefore urged to offer them *access to major research infrastructures*, following the example set by CERN.

International laboratories can serve as unique incubators for young talents from emerging countries, providing *nodes where they may network and collaborate* with older scientists in the diaspora and with scientists of all ages from advanced industrial countries.

International organizations should encourage members of the diaspora working at their laboratories to *nurture contacts with younger scientists* from their home countries, e.g., by co-supervising students.

The value of these contacts is maximized if the international organizations *maintain contacts with scientists* after they return to emerging countries, and support them during their reinsertion periods.

In order to enable remote collaboration by scientists working in emerging countries, international organizations should *support global networking* initiatives.

International organizations should also enable returned scientists to recharge their research batteries by offering them *opportunities to spend sabbaticals* in their laboratories, following the examples set by the ICTP.

International organizations should be open to *two-way mobility*, enabling visits by their staff members to emerging countries for pedagogical, mentoring and collaborative work.

International organizations should provide *free access to the scientific information* they produce, both in formal publications and in video records of seminars and lectures, following the examples of the ICTP and CERN.

*Formal agreements* between international organizations and governments are often essential frameworks for co-operation, without which governments in emerging countries do not fund their scientists for collaborative work.

International organizations should encourage the *sharing of best practices in research management*.

International organizations should encourage *trilateral collaborations* between themselves, emerging and advanced countries.

The ICTP and CERN are encouraged to *deepen and extend their existing collaboration* to provide research opportunities for scientists from emerging countries