

Input from Audience about 'Bottlenecks' Component

- 1) Re: development of international intergovernmental hydrological organization
 - Do not propose development of 'new' organization, but encourage collaboration between the currently existing organization such as WMO hydrology and IHP UNESCO.
- 2) Education (outreach):
 - Distinguish between 'appropriate' education to developing countries and education to stakeholders/water managers in developed countries – both are needed.
 - Should hydrology give input to water managers or should they really be involved in the water managers.
- 3) Continue to develop or advertise the identity of hydrology, which is currently fragmented.
- 4) Attitude
 - Hydrologists are currently skeptical about their data/models/approaches, etc., and thus hesitant to put the advances to use for practical problems. Since these are often the best we have, we should advocate implementing policies based on these advances, even if they are incomplete.
 - We have a chance to change the attitude of younger scientists, with regard to data sharing and increased collaboration.
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- 5) Problems can be solved in other ways than just by increasing funding:
 - Change of attitude
 - 'we don't have money so now we have to think'
 - we can encourage individual contributions that could be important, such as data mining of local, rich data bases and analysis results such as those developed by water managers.
- 6) Public Awareness
 - Capitalize on flood/drought problems to get across (during these times where people are tuned into hydrology) to the public the importance of less tangible components of hydrology (such as groundwater).
 - Make good hydrological case studies public via newspaper, news, etc., so that people will recognize the value of our science.
- 7) 2020 Approach. In our 2020 group, we should clearly distinguish between:
 - What we are suggesting that others do, and
 - What we can do in our short time. A suggestion was that we should solicit more input from younger scientists at an international meeting.

Other comments from the audience after the bottleneck audience input presentation:

- 8) In our individual science topics for the red book, make sure that we speculate about where the science will be in 20 years or so. Look forward.
- 9) Consider technology exchange vs. technology transfer. Example from India about water harvesting technology exchange.