



I wish to thank you, Johana, and the organizing committee for a job well done.

Please bring my greetings and best wishes to all the workshop participants.

Thank you,

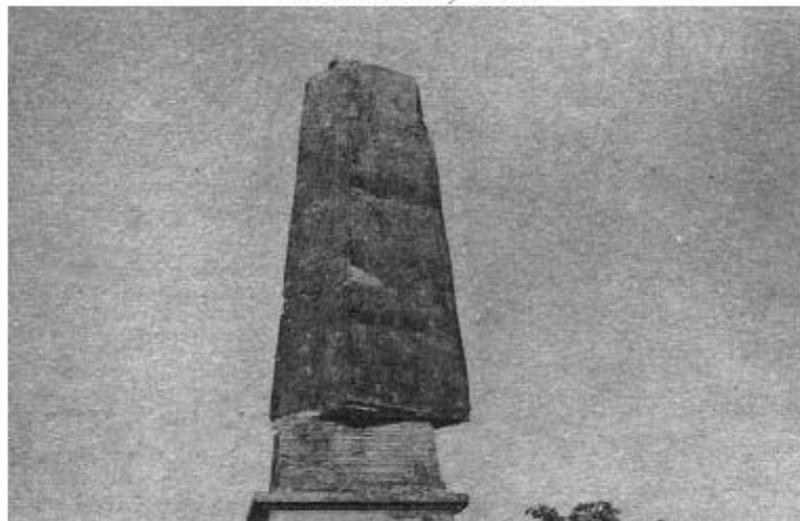
Willie



Rotational Seismology and Engineering Applications:
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- Since the **classical linear elasticity theory** is clearly inadequate, more realistic theory should be developed, especially for rotational motions in the near-field.
- Using existing data and collecting more data from existing rotational instruments, **establish one or more rotational motion noise models** (low noise, high noise). Update the noise models as more data become available.
- **Routinely record 3-component ground rotation (using commercially available rotation sensors) at operating seismological stations**, especially near active seismic zones. This should be done at perhaps a dozen stations on a trial basis in order to collect enough rotational motion data on which to base future deployments.

- Install and routinely operate a **large ring laser** (at least one component, preferably three components) at **one or more high quality seismological observatories**. For those interested in tilt signals (LIGO, USGS/ASL), comparing rotation about one or both horizontal axes to the output of high-quality very broad-band horizontal instruments, like the STS-1H/VBB seismometer, will be important.
- **Routinely record rotational motion in a few structures** and at depth below, especially those in active seismic zones. Rotational sensors should be placed strategically in such a way as to produce maximum knowledge gain.

- **Encourage development of higher quality, lower cost rotational sensors than those now commercially available.** This may require some R&D funding since the market for rotational sensors is currently quite small.
- Continue development of techniques and facilities for **rotational sensor testing.**
- **Urge funding agencies to support: (i) deployment of rotational sensors** on the ground and in structures, and (ii) research involving the rotational components of ground motion and of the response of structures, and the effects of these motions.



... lot's of work ahead!

**Enjoy the 2nd IWGoRS
Workshop!**