

# SÉMINAIRE

Groupe de recherche et d'études en génie des structures  
École Polytechnique de Montréal

## ***TALL BUILDINGS WITH STEPPING COLUMNS OR STEPPING FOUNDATIONS DURING LARGE EARTHQUAKES***

By:

**Professor Akira Wada  
Structural Engineering Research Center  
Tokyo Institute of Technology, Tokyo, Japan**

The interaction of building and foundations is important when considering actual dynamic behavior of building structures during an earthquake. Many buildings collapsed by crushing of columns under compressive force or by failure in compression of the foundations. There is almost no building that collapsed by tension failure of columns or uplift of the basement from foundation. In the presentation, two types of shaking table tests for these structural systems will be discussed and three actual tall buildings in Japan which have stepping columns systems will be described.

DATE: 10 AOÛT 2004  
HEURE: 10h30  
SALLE: A-404

RENSEIGNEMENTS : Robert Tremblay  
Téléphone : (514) 340-4711 poste : 5946

**BIENVENUE À TOUS**