Shigeru Ban is an “architect without borders.” He has set up offices in Tokyo, Paris and New York, and designed architecture in diverse countries, including a library for a university in Tokyo, a golf clubhouse in South Korea, an annex building for the Pompidou Center Museum in the city of Metz, France, and the New Aspen Museum in the U.S. state of Colorado. However, Ban is referred to as an architect without borders not just for his numerous designs around the world but also because he has sought to build houses for those who have lost them and to reconstruct other destroyed buildings in his volunteer work in parts of the world affected by earthquakes, tsunamis, hurricanes, and other natural disasters, functioning in a way similar to Doctors without Borders.

Though Ban has often expressed the warmth of wood in his designs, since the 1980s he has been interested in paper as an architectural material to replace wood. He has studied and experimented with paper pipes, first using them in support efforts for people affected by the Great Hanshin-Awaji Earthquake which struck in January 1995. Ban frequently

Architect Shigeru Ban has gained high recognition worldwide for his use of structures made of paper pipes in efforts to provide support for people affected by disasters. Here we introduce his architectural works and activities.

The community center (Paper Church) in Kobe was built by church volunteers whose house of worship was destroyed by the Great Hanshin-Awaji Earthquake in 1995. Materials were donated by a number of companies, and construction was completed in only five weeks by the 160 volunteers.

Paper Pipes Provide Lifeline

The community center (Paper Church) in Kobe was built by church volunteers whose house of worship was destroyed by the Great Hanshin-Awaji Earthquake in 1995. Materials were donated by a number of companies, and construction was completed in only five weeks by the 160 volunteers.
visited Kobe after the earthquake and built a community hall (commonly known as the Paper Church), which contains fifty-eight five-meter paper pipes supporting a roof made of cloth on the site of a church that burned down. (The Paper Church was transferred to a village damaged by the large-scale earthquake that hit Taiwan in 1999, where it is now used as a community hall.)

Paper pipes are lightweight, low-cost, and can be obtained relatively easily in any country. Another advantage is that no heavy machinery is needed for their construction. They are made of corrugated cardboard, newspaper, magazines and other waste paper. Because of this, they can easily be disposed of, incinerated, or recycled after temporary houses are dismantled.

Ban has engaged in numerous support efforts using paper pipes in times of disaster, including the shelter that the United Nations High Commissioner for Refugees offered to Rwandan refugees in 1999, temporary houses for those affected by the earthquakes in Turkey in 1999 and India in 2000, and temporary school buildings for elementary schools destroyed in the Great Sichuan Earthquake in 2008.

Ban has actively taken part in support activities following the Great East Japan Earthquake as well. He installed partitions made of paper pipes at evacuation centers, which allow people there to maintain a level of privacy. He also helped to build three-storied temporary housing made by combining existing cargo containers.

In recognition of these activities, Ban was awarded the Auguste Perret Prize on September 27 at UIA 2011 in Tokyo (see pp. 18–19). The jury’s review stated, “Shigeru Ban carries international respect for applying his ability in technology in architecture to not only serving the more affluent users of architecture but also to a creative exploration of shelter using paper tubes and membranes for disaster relief. He achieves this without compromising functionality or aesthetics.”

Ban explained why he actively takes part in disaster relief activities: “People die in natural disasters mostly from manmade causes. People die in earthquakes because buildings collapse. For this reason, I believe we architects are heavily responsible for helping those affected by disasters.”