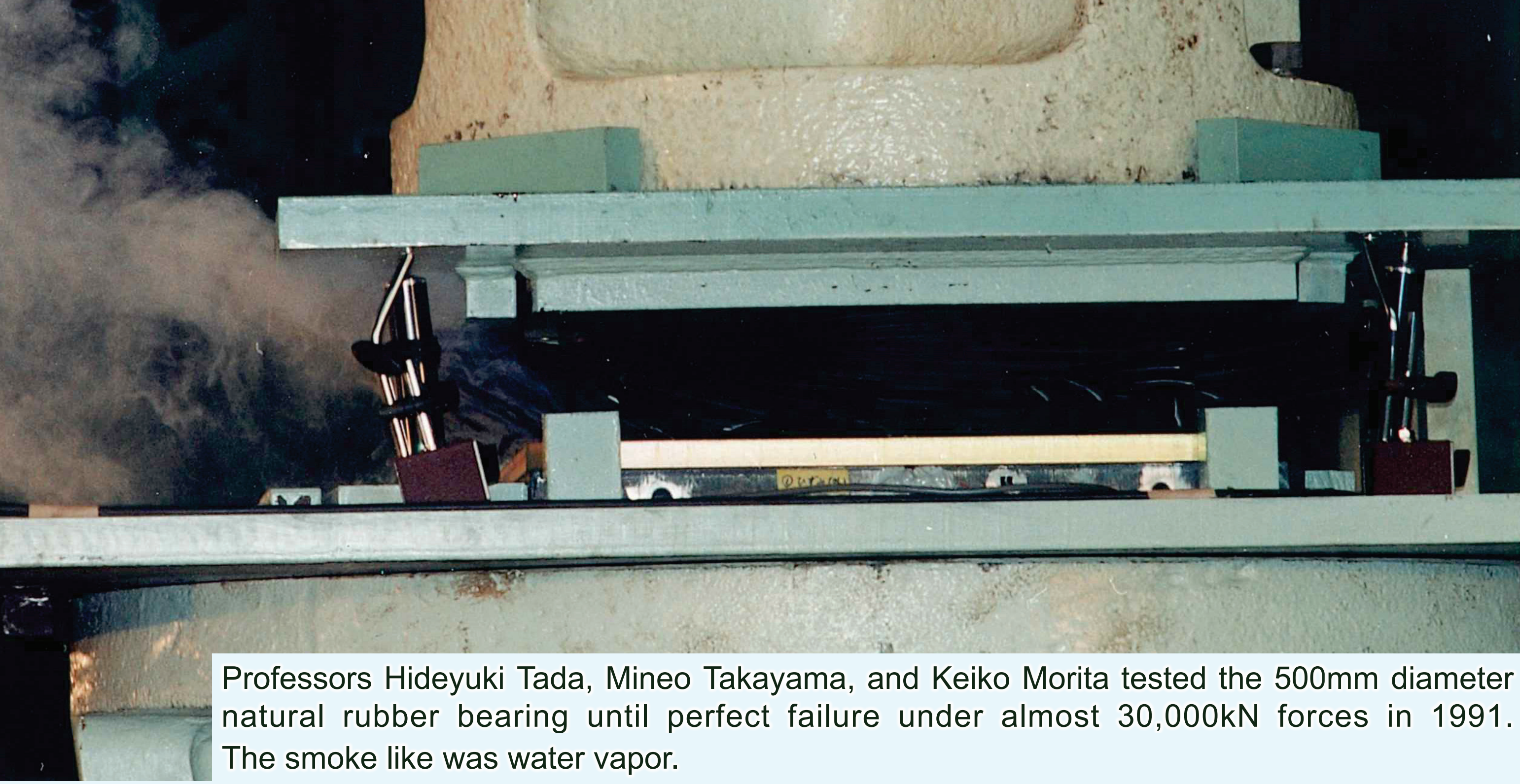


Our long-desired, high-performance, real-scale test machine started in Japan.

We, the E-Isolation research groups, respect the many professors and engineers who have attempted to test real-size devices using or constructing large dynamic testing machines in these four decades. Prof. Hideyuki Tada's ultimate test of a real-size rubber bearing in the 80,000kN strong compressing machine of the Mitsubishi Heavy Industry in 1991. He found that the maximum compression stress exceeded 150MPa, and the steel sim plates broke suddenly, but the rubber remained intact.



Professors James Kelly, Toshio Nishi, Fulin Zhou, Alessandro Martelli, Stephen Mahin, Hirokazu Iemura, Yoza Fujino, Michael Constantinou, Victor Zayas, Haruyuki Kitamura, Kazuhiko Kasai, Toshimi Kabeyasawa, Mineo Takayama, Masaru Kikuchi, Mitsuyoshi Akiyama, Hideo Fujitani, Keisuke Yoshie, Keiko Morita, Taiki Saito, and Structural Engineers Shoichi Yamaguchi, Ian Aiken, Akinobu Nakazawa, Hideo Katsumata, Takayuki Sakakima, Yasutsugu Kurokawa, Akihiko Kondo, Hiroyuki Ueda, Hideo Kobayashi, Xianqun Guo, Masashi Yamamoto, Tsuyoshi Sano, Shigeki Sugiura, Yasushi Ichikawa, Atsushi Watanabe, Ryota Maseki, Yusuke Noguchi, Nobuo Murota, Namihiko Inoue and many professors and engineers have been promoting to construct big testing machines for many years. USA engineers constructed SRMD at the University of California San Diego first in 2000. Now, more than 15 large testing machines are used in the USA, China, Italy, and Türkiye. Most current good news is that Prof. Fulin Zhou, Guangzhou University constructed 100,000kN testing machine in 2024.

Professors Yoshikazu Takahashi, Toru Takeuchi, Shoichi Kishiki, Masako Yoneda, Yoza Shinozaki, Koichi Kajiwara, and Akira Wada and many active people constructed the E-Isolation close to Kobe City in April 2023. So many engineers and companies continuously support the activities of the E-Isolation, and engineers Tsutomu Nakanishi, Makoto Hamada, Satoshi Sasaki, Shinsuke Inai, Shunichi Higuchi, and Keiichi Hirose strongly support us as members of the board committee. The E-Isolation is being improved functionally and operated very well by Kenji Sawada, Kazuo Tamura, Toru Tsuchihashi, Takaaki Miyabara, Masanobu Hayashizaki, Hidemi Niinai, Sakae Ueda, and many users. We appreciate very much to the excellent young researchers, Tsubasa Tani, Yuki Terasawa, Keita Uemura, Miku Kurosawa, Tomoya Ueda, Maho Kobayashi, Kazushi Sakai those who are executing good studies using the E-Isolation.

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Officials of Housing Bureau of MLIT and engineers will apply the results of the dynamic test of real-size specimens or devices to the building permission process for seismic-isolated structures from 2026.

