

## From An Enlarged Conception of Earth Science to the Trans-Science: Professor Yasuo Shimazu and the History of Science

YAMADA, Toshihiro<sup>1\*</sup>

<sup>1</sup>Chiba Prefectural Funabashi High School/ Research Fellow of the University of Tokyo

This paper examines the studies of earth science of Professor Yasuo Shimazu (b. 1926), the geophysicist at Nagoya University, in his 1970s. He presented a conception 'socio-geoscience' in his book of 1970. The 'socio-geoscience' included three areas of sciences: earth science, ecology and economy, which he called '3E approach', with the method of computer simulation. This 'enlarged' earth science has a character that the American physicist Alvin Weinberg suggested 'trans-science' because of its inclusion of decision-making of citizens. Also, the tendencies of environmental assessment and educational reformation in the 1970s will be discussed.

Keywords: socio-geoscience, controlling the environment, trans-science, Yasuo Shimazu, history of geoscience in the 1970s