

Information Networking

The 69th ICHARM R&D Seminar

第69回 ICHARM R&D セミナーの開催

ICHARM has been organizing Research and Development (R&D) Seminars on an irregular basis to provide researchers with opportunities for self-development and updating themselves with the latest research by inviting domestic and international experts in the field of risk management and water-related issues.

The 68th R&D Seminar was held on 11th October, 2022, inviting Professor Andras Szollosi-Nagy of the Department of Water Environmental Policy, National University of Public Service, Hungary. The professor was the chair of the Intergovernmental Council of UNESCO Intergovernmental Hydrological Programme (IHP) for two years from 2016 and the vice-chair of the Ministerial Council of the World Water Forum. He was also deeply involved in establishing ICHARM by devoting himself to making various arrangements as the UNESCO contact person at that time and has since been very supportive of its activities. As his professional career shows, the professor is well-versed in global issues and current developments in hydrology.

On this occasion, he delivered a presentation entitled "Global changes and their impacts on the hydrological cycle," addressing current global issues in water science and the prospects for freshwater resources in the 21st century. Pointing out that extreme floods, droughts, and other events have been more frequent in recent years, with an example of 100-year floods occurring every 20 years in many parts of the world, Professor Szollosi-Nagy concluded that the current infrastructure approach, which is based on the concept of "T-year design flood" developed using the stationary hydrological cycle hypothesis, is no longer effective. He then suggested the urgent need for new approaches and standards adjusting to the non-stationary nature of the hydrological cycle. He also added that conventional structural measures should be reviewed regardless of their scales to cope with new challenges and mentioned the construction of more infrastructure for floodwater storage, for example.

ICHARM will continue organizing seminars at various opportunities in the future to update researchers with the latest knowledge and skills on water-related issues across a wide range of perspectives.



Prof. Szollosi-Nagy lecturing
講演を行うソロシナジ教授

ICHARM では、水災害分野に関する国内外の専門家を招聘し、最新の研究や知見について講演いただき、参加者の研鑽を深める機会として、「ICHARM R&D セミナー (ICHARM 研究開発セミナー)」を不定期に開催しています。

第69回の今回は、10月11日にハンガリー国立公共サービス大学水環境政策学部教授の András Szöllösi-Nagy 氏をお招きしました。ソロシナジ教授は、2016年から2年間ユネスコ IHP (政府間水文学計画) 政府間理事会議議長を務め、世界の水文分野の課題や最新情勢に精通されるとともに、世界水フォーラム閣僚会議の副議長として活躍されました。さらにソロシナジ教授は、ICHARM 設立時のユネスコ側担当者として諸調整に尽力され、ICHARM に対する理解も深いです。

「Global changes and their impacts on the hydrological cycle」と題された講演では、現在の世界的な水科学の課題と21世紀の淡水資源の展望について概説されました。現在では洪水や干ばつなどの極端な現象の頻度または確率が増加しており、例えば、今日では世界の多くの地域で20年ごとに100年の洪水が発生していることに触れられ、定常水文過程の仮説の下で開発された「T年設計洪水」の概念などの現在の設計方法論はもはや有効ではないと述べられました。このため、今後は水文過程の非定常性を適切に考慮するために、新しい設計方法論と基準が必要であり、より多くの貯水の必要性など、いくつかの構造的対策の再検討があらゆる規模で必要であると述べられました。

ICHARM では今後も様々な機会をとらえ、幅広い分野から水災害・リスクマネジメントに関わる知見を広く伝えるべく、セミナーを開催していく予定です。

(Written by KURIBAYASHI Daisuke)