21st Japan-Korea Joint Seminar at the Tokai Region, Japan

Restoring River Environments and Sustaining River Culture through Research and Practice

河川環境再生と川文化の継承:研究と実践

October 24-25, 2025

Day 1: Seminar at the Aqua Restoration Training Center, Gifu Day 2: Site Visit – Mid to Upper Reaches of the Nagara River Basin.

Hosted by

Ecology and Civil Engineering Nagoya (応用生態名古屋) Center for Environmental and Societal Sustainability (CENSS), Gifu University

Contents

Seminar overview	p.1
Seminar timetable	p.2
Abstracts (Oral presentations)	p.4
Abstracts (Poster presentations)	p.20
Excursion overview	p.30
Information for participants from Korea	p.34
Sponsors	p.37

Local Organizing Committee (LOC):

Prof. Takashi Tashiro (Nagoya Univ.): Secretary general, contact person at 応用生態名古屋

Prof. Morihiro Harada (Gifu Univ.): Excursion and transport

Prof. Ryota Tsubaki (Kobe Univ.): Contact person to Korean and Japanese

Prof. Yuta Mizoguchi (Nagoya Univ.): Contact person at ARRC

Host (Main/Joint):

応用生態名古屋

Ecology and Civil Engineering Nagoya

岐阜大学高等研究院環境社会共生体研究センター

Center for Environmental and Societal Sustainability (CENSS), Gifu University

Seminar overview

21st Japan-Korea Joint Seminar at the Tokai Region

Theme:

Restoring River Environments and Sustaining River Culture through Research and Practice 河川環境再牛と川文化の継承:研究と実践

Date:

24 October (Fri.): Seminar at the Aqua Restoration Research Center (ARRC), Gifu (Whole day from morning).

25 October (Sat.): Excursion at the Nagara River (Whole day).

Outline:

Seminar (24 Oct)

Venue: Agua Restoration Training Center (水辺共生体験館), ARRC

Schedule:

08:45 - Charter bus departs from JR Gifu Station

09:30-09:55 - Reception at the venue

(Participant check-in and collection of participation fee)

10:00 - Seminar starts

12:20-14:00 - Lunch at the venue & poster presentation core time

15:30 - Seminar ends

Program Overview:

Oral presentations: 12 minutes including discussion × (6 Korean + 6 Japanese), both morning and afternoon sessions

Keynote lectures: Prof. Tsujimoto (Japan) and invited speaker(s) from the Korean side

Poster presentations: Approx. 5 from each country. A0-Vertical/Portrait size.

Post-seminar options:

Guided Tour of ARRC (15:30–17:30)

Includes facilities and exhibitions related to river restoration

- 17:30 - Charter bus departs for JR Gifu Station

Direct return after seminar

- 16:00 - Chater bus departs for Meitetsu Kasamatsu Station

Excursion (25 Oct)

09:00 - Depart from JR Gifu Station

Full-day visit to the Nagara River to explore its history, ecology, and cultural aspects

17:00 - Drop-off at JR Gifu Station

Seminar Timetable:

From	То	Abst. page	Event and presenter(s)	Title		
10:00	10:05	1 5	Prof. Takashi TASHIRO	Announcement		
10:05	10:10		Dr Keigo NAKAMURA (PWRI)	Welcome remarks		
Oran s	Oran session 1 (Chair: Yoichi KAWAGUCHI at Niigata University)					
10:10	10:22	4	Yuexia ZHOU and Yuji TODA	Estimation of the 3D Density of Riparian Tree Using 3D-Scan Point-Cloud Data		
10:22	10:34	5	Gunwoo PARK and Daehyun KIM	Planform Dynamics Along an Entire River Course Following an Extreme Flood: a 'Segmented Continuity' Perspective from Southern Korea		
10:34	10:46	6	Takashi TASHIRO, Ichiro TAYASU, Aimin HAO and Yasushi ISERI	Changes in Sedimentary Environments in Floodplains in Japan and China over the Past Several Decades and Their Controlling Factors		
10:46	10:58	7	Eunkyung JANG, Jaeho KIM, Un JI	Spatial and Temporal Integrated Assessment of Bed Morphological Changes in Stream-scale Vegetated Channel		
10:58	11:10	9	Yasuhiro TAKEMON and Hironobu KANZAKI	A case study of tidal flat restoration by sediment replenishment in the river mouth of the Yodo River		
(10min)		Break			
Oran session 2 (Chair: Daehyun Kim at Seoul National University)						
11:20	11:32	10	Giyoung OCK and Seung-Soo CHUN	Tracing the Environmental History Recorded in the Sediments of the Intertidal Flats of the Geum River Estuary in South Korea		
11:32	11:44	11	Hiroshi CHO, Minoru MIYAKE, Haruka IWATA and Md. Munsur RAHMAN	Technological Innovations in Indigenous Spur Dykes as Nature-Based Solutions for Alluvial River Management in South Asia		
11:44	11:56	12	Myounghwan KIM	Application of Biopolymer-Mixed Soil to Levee Revetments		
11:56	12:08	13	Yoichi KAWAGUCHI, Takahiro SATO, Hiromasa ONIKUBO, Yoshihisa AKAMATSU, Ryohei NAKAO, Ryoichi YAMANAKA, Sayaka MORI, Yasunori MUTO and Mahito KAMADA	Quantitative Environmental DNA Metabarcoding Reveals Fish Biodiversity Patterns in the Lower Reaches of Yoshinogawa River Basin in Tokushima		
12:08	12:20	14	Sangjin HAN, Sung-Uk CHOI, Byungwoong CHOI and Jong-Min OH	Construction of Habitat Suitability Curves for Benthic Macroinvertebrates using the ANFIS method in the Geum-gang River Basin		
_		, .		A		
Poster session (Chair: Ryota TSUBAKI at Kobe University) and lunch						
12:20	12:40	,				
12:40	13:20		Lunch time & Poster preview			
13:20	14:00		Poster core time			

Oral asseign 2 (Chair, Changles, lang at Kares National University of Transportation) and also					
From To page Event and presenter(s) Title Oral session 3 (Chair: Changlae Jang at Korea National University of Transportation) and closing					
14:00 14:20 15 Tetsuro TSUJIMOTO Keynote: Fluvial Processes Support River-Ecosystem Integrity	ting				
14:20 14:40 16 Yugyeong OH and Leehyung KIM Aquatic Ecosystem Health and Ma Strategies					
Morihiro HARADA, Shigeya 14:40 14:52 17 NAGAYAMA, Ryoji FUJII, and Thermal Regimes in Nagara River Masanao SUEYOSHI	System				
14:52 15:04 19 Haeji SHIN and Eunsuk KIM Habitat preference and competitive Humulus japonicus, an aggressive plant species in Korean riparian are	weedy				
15:04 15:30 Profs. TAKEMON and CHOI (tentative) Discussion, closing remarks					
Poster presentations (Poster core time 13:20 – 14:00)					
Nonoka SAKAUE, Ryota Effects of Flushing Flows on Rivert 20 TSUBAKI and SEFAT Changes during Natural Floods in t KARIMULLAH Satsunai River					
Seonggi AN, Yongmin KIM, Spatial Distribution and Quantitativ Assessment of Woody Vegetation					
Survey of Attitudes toward Kasumi Traditional Fragmentary Levee System to Traditional	etem in n: e-Based				
Hyunjin SEO, Goeun KIM, Giyoung OCK Assessing Terrestrialization Risk in Protected Wetlands Using the JRC Surface Water Dataset					
25 Zong Woo GEEM Music-Inspired Harmony Search Al for River Optimization Problems	gorithm				
Carbon Sequestration Potential of Climate-Adaptive Flood Mitigation 2 Un JI, Yunchae PARK, Seonggi AN, Chanjoo LEE Carbon Sequestration Potential of Climate-Adaptive Flood Mitigation 2 Large-Scale Cultivation and Growth Monitoring in Korea	Zones:				
28 Chang-Lae JANG Laboratory analysis of channel dev influenced by floodplain vegetation	elopment				
Jaeho KIM, Eunkyung JANG, Un JI Grain-Size-Dependent Thresholds Transport under Large-Scale Expe Conditions					

Post seminar schedule

15:30 17	':20	ARRC short guide tour
16:00		Bus departure to Kasamatsu St.
17:30		Bus departure to Gifu St.

Excursion to the Nagara River: Overview and Highlights

During the excursion, participants will explore key locations in the mid-to-upper reaches of the Nagara River Basin, gaining insights into river culture and flood management.

By visiting historical towns, traditional industries, and key water-related sites, participants will learn how local communities have coexisted with the river through ingenious water management systems and disaster prevention strategies. The tour will highlight how traditional river-based industries (such as washi-making and ayu fishing) and flood resilience measures have shaped life along the Nagara River.

This excursion offers a comprehensive understanding of the Nagara River's role in sustaining both natural ecosystems and human settlements, making it an invaluable experience for those interested in river conservation, cultural heritage, and water disaster prevention.

The Nagara River (長良川) is one of Japan's most scenic and culturally rich rivers, flowing approximately 166 km through Gifu Prefecture before joining the Kiso River and emptying into Ise Bay. Known for its pristine water quality, the Nagara River has been recognized as one of Japan's clearest rivers and plays a vital role in both the natural environment and cultural heritage of the region.

Time	Duration	Schedule & Description	
09:00	0:15	Depart from JR Gifu Station (Group Bus Parking, north side of Juroku Plaza)	
09:15	1:00	Stop near Nagara Bridge (in front of K Excellent Hotel).	
		The bus will move ahead and wait at the Nagara River Ukai Museum	
		parking area.	
		Site 1: River culture and flood management systems in Gifu City,	
		along the central reach of the Nagara River.	
10:15	0:30	Depart from Nagara River Ukai Museum	
10:45	0:30	Stop near the west end of Mino Bridge.	
		The bus will move ahead and wait at the Michi-no-Eki Mino Niwaka Chaya	
		parking area. ★Souvenir shops and local products are available	
		Site 2: The traditional town of Mino — prosperity through washi	
		paper and river transport, and present-day flood control challenges.	
11:15	0:45	Depart from Michi-no-Eki Mino Niwaka Chaya	
12:00	1:00	Arrive at Seiryu Nagara River Ayu Park.	
		Lunch: Catered bento from "New Shiratori," featuring a tasting set of wild	
		and farmed ayu (sweetfish).	
		Site 3: Comparing wild and cultured ayu of the Nagara River.	
13:00	0:30	Depart from Seiryu Nagara River Ayu Park	
13:30	2:00	Arrive at Gujo Hachiman (Jokamachi Plaza Parking).	
		★Shops offering local crafts and specialties are available.	
		Site 4: Walking tour of Gujo Hachiman — "The Water Town," where	
		everyday life and culture are closely intertwined with pure spring	
		water and the Nagara River system.	
15:30	1:00	Depart from Gujo Hachiman (Jokamachi Plaza)	
16:30	_	Arrive back at JR Gifu Station (Group Bus Parking, north side of Juroku	
		Plaza)	



Assembly Point: JR Gifu Station (Group Bus Parking, north side of Juroku Plaza)

1. Overview of the Nagara River Basin

Source: Mt. Dainichigatake (大日ヶ岳), located in the northern part of Gifu Prefecture.

Length: 166 km

Basin Area: 1,985 km²

Main Cities Along the River: Gujo, Seki, Gifu

Ecosystem: The river is home to diverse aquatic life, including ayu (sweetfish), which is central to

the local fishing culture.

2. Key Attractions & Highlights for the Field Trip

(1) Nagara River Basin near Gifu City - The Cultural Center

What to See:

Cormorant Fishing (鵜飼, Ukai) on the Nagara River (A 1,300-year-old tradition).

Gifu Castle (Historical site offering a panoramic view of the Nagara River).

Nagara River Ukai Museum (Learn about the history of cormorant fishing).

Relevance to the River:

The Nagara River is famous for Ukai (Cormorant Fishing), a traditional method of fishing using trained cormorants to catch ayu. This technique has been preserved for over 1,300 years and is conducted under the patronage of the Japanese imperial family.



Nagara River and Gifu City

(Photo from: https://www.city.gifu.lg.jp/kankoubunka/bunkazai/1026875/1005555.html)

Towns Along the River: Living "Inside the River"

These towns along the Nagara River are actually located within the river's levee system, meaning they exist inside the river rather than beside it. These towns have ingenious flood management designs that allow them to coexist with the river while minimizing damage during floods.

The riverside streets and buildings are strategically built to withstand periodic floods, ensuring

The riverside streets and buildings are strategically built to withstand periodic floods, ensuring safety even during major floods that occur every few decades.

(2) Mino City (美濃市) – The Home of Traditional Japanese Paper (Washi)

What to See:

Udatsu Street (うだつの上がる町並み) – A beautifully preserved Edo-period townscape.

Mino Washi Museum – Showcasing the 1,300-year-old tradition of handmade Japanese paper.

Mino Washi Akari Art Exhibition – A unique display of washi-based light art.

Relevance to the River:

The clean, mineral-rich water of the Nagara River is essential for washi paper production, a tradition dating back over a millennium.

Mino Washi has been recognized as an Intangible Cultural Heritage by UNESCO.

Note: Due to the scheduling of the excursion, the visit to Mino will be limited to the riverside area along the Nagara River. There will be no time for walking through the historical town district.

(3) Gujo Hachiman (郡上八幡) – Headwaters Region

What to See:

Gujo Hachiman Castle (one of Japan's most beautiful mountain castles).

Clear spring water and small canals run through the historic town.

The Gujo Odori dance festival (one of Japan's longest Bon dances).

Relevance to the River:

The area is known for its water conservation efforts, ensuring the cleanliness of the Nagara River. Visitors can learn about the local water culture, including traditional washing and irrigation systems.



Yoshida River in Gujo-Hachiman

(Photo from: https://www.gujo-fc.or.jp/news/20240601-01/)

3. The Cultural and Ecological Significance of the Nagara River

(1) Ayu (Sweetfish) and Traditional Fishing Methods

The Nagara River is one of Japan's best rivers for ayu fishing, and the fish is a key part of the region's cuisine.

Cormorant Fishing (Ukai): Fishermen use trained cormorants to catch ayu under torchlight, a tradition preserved for over 1,300 years.

(2) Living with the River

The Nagara River has shaped local industries, including Mino's washi paper and Gujo's water management traditions.

The people of the river basin have maintained sustainable water management practices, ensuring the river's clarity and biodiversity.

Recommended plan for participants coming from Korea:

We recommend that participants stay at a hotel near JR Gifu Station on the night before the seminar, and gather at JR Gifu Station on the morning of the event.

For those attending both the seminar and the excursion, it is convenient to stay near Gifu Station for three nights: the night before the seminar (23 October), the seminar day (24 October), and the excursion day (25 October).

(JR Gifu Station and Meitetsu Gifu Station are about a 5-minute walk apart.)

Charter bus:

On 24 October, a microbus will pick you up at one of the following locations:

08:45 - Tourist bus parking area at JR Gifu Station

09:15 - Rotary in front of Meitetsu Kasamatsu Station

Tourist bus parking area at JR Gifu Station:

https://maps.app.goo.gl/FcksjMYi9Q7sVTos8

Rotary in front of Meitetsu Kasamatsu Station

https://maps.app.goo.gl/CCUjBSEDzeWqMh7Q7

After the seminar, a chartered bus will be provided to Meitetsu Kasamatsu Station or JR Gifu Station.

If you plan to go directly to Chubu Centrair International Airport after the seminar, please note: Arrival at the airport will be around 18:00 if traveling via Meitetsu Kasamatsu Station after the seminar. From Meitetsu Kasamatsu Station, there are direct trains to the airport at 16:37 and 17:07.

Transportation for Gifu or Kasamatsu Station:

1. From Chubu Centrair International Airport (NGO) to Meitetsu Gifu Station

Route: Meitetsu Airport Line → Meitetsu Nagoya Main Line → Meitetsu Gifu Station

Duration: Approx. 55–60 min (µSky Limited Express, direct) Fare: 1,270 JPY (regular) / 1,870 JPY (reserved seat µSky)

2. From JR Nagoya Station to JR Gifu Station

Route: JR Tokaido Main Line (local or rapid)

Duration: Approx. 20 min

Fare: 480 JPY

3. From Meitetsu Nagoya Station to Meitetsu Kasamatsu Station

(For participants going directly to Kasamatsu Station on the seminar day)

Route: Meitetsu Nagoya Main Line → Meitetsu Kasamatsu Station

Duration: Approx. 25 min (express)

Fare: 450 JPY

4. From JR Nagoya Station to Meitetsu Kasamatsu Station (via JR Ichinomiya)

(For participants going directly to Kasamatsu Station on the seminar day)

Route: JR Tokaido Main Line from JR Nagoya Station \rightarrow JR Ichinomiya Station \rightarrow transfer to Meitetsu Ichinomiya Station \rightarrow Meitetsu Nagoya Main Line \rightarrow Meitetsu Kasamatsu Station

Duration: Approx. 40-45 min total

Fare: JR segment ~330 JPY + Meitetsu segment ~380 JPY

5. From Meitetsu Gifu Station to Meitetsu Kasamatsu Station

Route: Meitetsu Nagoya Main Line (southbound) Duration: Approx. 7 min (express) / 10 min (local)

Fare: 230 JPY

Accommodation Options Near JR Gifu Station & Meitetsu Gifu

Station

For travelers looking for convenient accommodation near JR Gifu Station and Meitetsu Gifu Station, there are various hotels that cater to different budgets and preferences. Below are some recommended options:

Hotel Resol Gifu

Location: 3-minute walk from JR Gifu Station / 5-minute walk from Meitetsu Gifu Station

Features: Comfortable Western-style rooms, on-site restaurant, convenient for both business and

tourism

Price Range: Approx. 7,000–12,000 JPY per night

Daiwa Roynet Hotel Gifu

Location: 5-minute walk from JR Gifu Station / 7-minute walk from Meitetsu Gifu Station

Features: Spacious rooms, high-speed Wi-Fi, good for long stays

Price Range: Approx. 8,000-14,000 JPY per night

Comfort Hotel Gifu

Location: Right next to JR Gifu Station

Features: Budget-friendly, free breakfast, and convenient access to public transport

Price Range: Approx. 6,000-10,000 JPY per night

Hotel II Credo Gifu

Location: 2-minute walk from JR Gifu Station / 4-minute walk from Meitetsu Gifu Station

Features: Modern design, affordable rates, and good accessibility

Price Range: Approx. 6,000-9,000 JPY per night

Tovoko Inn Gifu

Location: 5-minute walk from JR Gifu Station

Features: Basic and clean rooms, free breakfast, good for short stays

Price Range: Approx. 5,000-8,000 JPY per night

AB Hotel Gifu

Location: 5-minute walk from JR Gifu Station

Features: Free breakfast, reasonable rates, and a public bath available

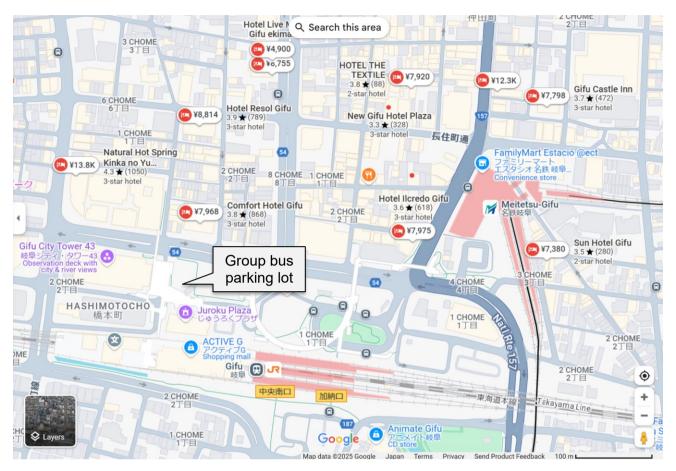
Price Range: Approx. 5,000-9,000 JPY per night

Hotel Livemax Gifu-Ekimae

Location: 3-minute walk from JR Gifu Station

Features: Affordable, convenient for solo travelers, simple but clean rooms

Price Range: Approx. 4,500–7,000 JPY per night



Hotel Map around JR Gifu Station and Meitetsu Gifu Station

Sponsors:





NIPPON KOEI URBAN SPACE



日本工営都市空間株式会社

本 社 名古屋市東区東桜二丁目17番14号

Tel: 052-979-9111

東京本社 東京都千代田区麹町四丁目2番地

Tel: 03-3514-6600

支 店 仙台・静岡・大阪・九州・沖縄

U R L https://www.n-koei.co.jp/urbanspace/







