

## POST-SYMPOSIUM FIELD EXCURSION

### **Cretaceous forearc basin siliciclastic successions along the Pacific coast, central Japan: Choshi, Nakaminato and Futaba groups**

**guided by Hisao Ando, Ren Hirayama, Kenji Kashiwagi and Seiichi Toshimitsu**

#### **Day 1 (September 7):**

Leave Takadanobaba, Tokyo at 8 a.m. for Inubosaki (small peninsula projected into the Pacific), Choshi City by chartered bus

- 1) Lower Cretaceous (Barremian-Aptian **Choshi Group**) storm-dominated shallow-marine sandy sediments including some offshore sandy turbidite, Geosites of **Choshi Geopark**
- 2) Overlying Pliocene Naarai Formation with Cretaceous radiolarian-bearing pebbles

Dinner at Café Marina, Chiba Institute of Science near a sunset beach  
Stay at Hotel Sunrise Choshi

#### **Day 2 (September 8):**

Leave Choshi at 8:30 a.m. for Kita-Ibaraki through Tsukuba and Nakaminato

- 1) Geological Museum, Geological Survey of Japan in Tsukuba City
- 2) Upper Cretaceous (Campanian to Lower Maastrichtian) turbidite and offshore mudstone facies (**Nakaminato Group**) bearing some heteromorph ammonites and other molluscan fossils exposed along the Pacific coast
- 3) Geosite of **North Ibaraki Geopark** (Hiraiso Coast, Hitachinaka City)

Dinner served with fresh seafood and Japanese cuisine and stay at Izura Kanko Hotel facing 2) and 3) of Day 3, Kita-Ibaraki City with excellent hot-spring public baths

#### **Day 3 (September 9):**

After North Ibaraki Geopark leave for Iwaki

- 1) Miocene methane seep carbonates at a geosite of **North Ibaraki Geopark**, Izura Coast
- 2) Rokkaku-do (red-colored small hexagonal hermitage) build on carbonate concretion blocks in Izura Institute of Art and Culture, Ibaraki University
- 3) Iwaki Coal and Fossil Museum (exhibition on plesiosaurid, dinosaur and several molluscan fossils occurred from Futaba Group, including Paleogene coal mine facilities)
- 4) Upper Cretaceous fluvial to shallow-marine sandstone and mudstone facies (**Futaba Group**)

Farewell party and stay at Iwaki Shin Maiko Heights with excellent hot-spring public baths

#### **Day 4 (September 10):**

After visit to the Futaba Group, leave Iwaki for Tokyo

- 1) Unconformities between the underlying Lower Cretaceous granite basement and overlying Eocene-Oligocene Iwaki Formation, and the Futaba Group
- 2) Iwaki City Ammonite Center, shallow-marine giant ammonite shell bed site.

Arrival at Tokyo until 6 p.m

