

INSTITUTE FOR MINING RESEARCH AND STUDIES

Name



Institute for Mining Research and Studies is a collective designation for the following three organizations:

- ◎ Akita Prefectural Resources Technology Development Organization
- ◎ International Institute for Mining Technology (MINETEC)
- ◎ Japan Oil, Gas and Metals National Corporation Metals Technology Center (JOGMEC)

These three organizations cooperate and complement each other, allowing the organic implementation of R&D, training, and academic and international exchange.

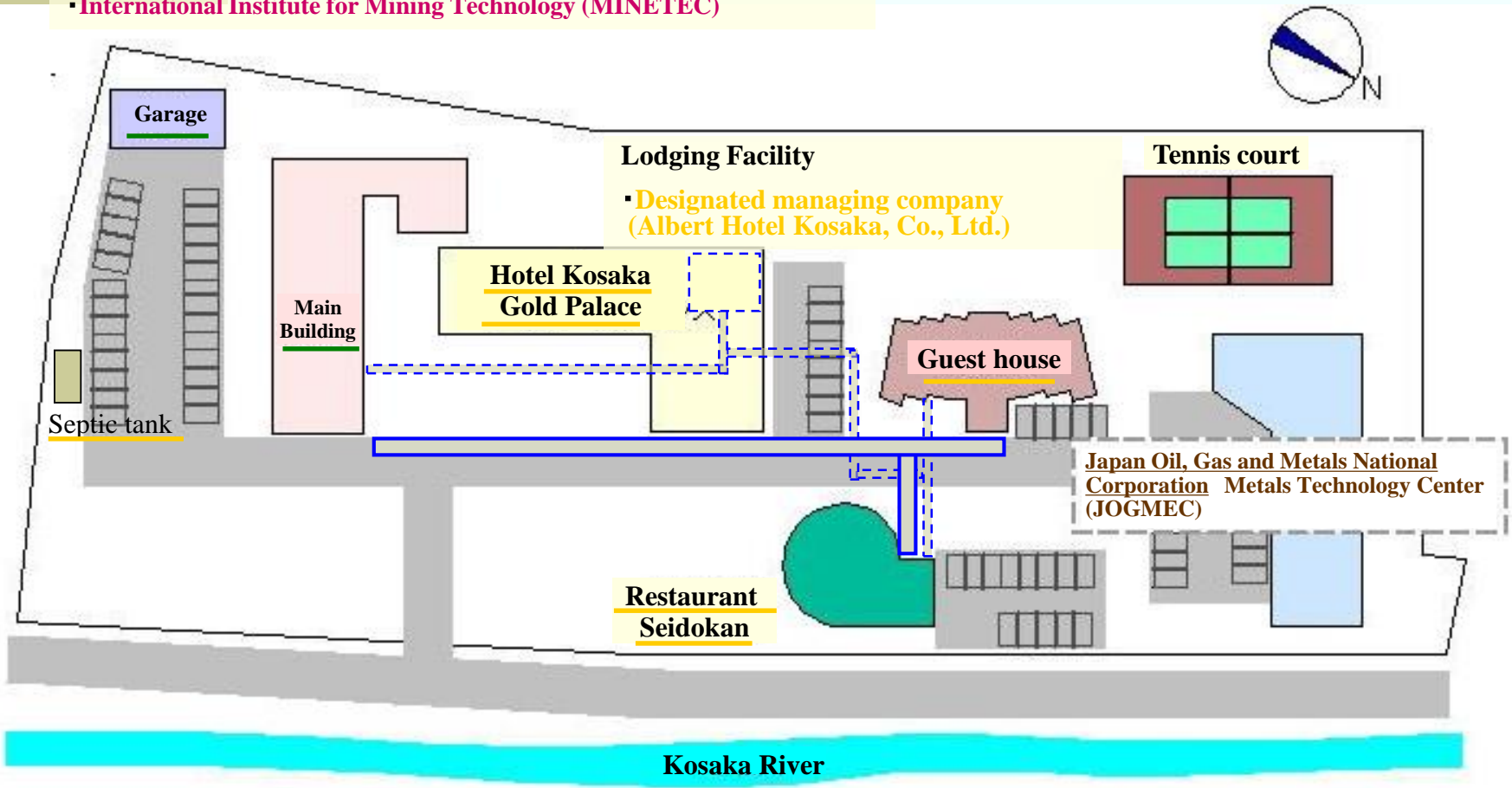
Additionally, the construction portions are courtesy of the Akita Prefectural Government Natural Resources and Energy Division (Recycling Tech. Gr.)

Lodging and restaurant catering courtesy of the designated manager (Albert Hotel Kosaka, Co., Ltd.)

Layout of Institute for Mining Research and Studies

Main Building

- Akita Prefectural Resources Technology Development Organization
- International Institute for Mining Technology (MINETEC)





Activities

1. Research and Development and Supporting Activities

- Researching efficient collection technologies for precious and industrial metals (jointly with corporations)
- We promote the Eco-Town project in Akita Prefecture, revitalizing resource recycling, and supporting research that leads to new industries.



2. Public Outreach for Resource Recycling

- Supporting Eco-town center functions
(Visitor facilities operations, coordinating business visits, etc.)
We perform public outreach through exhibitions and educational tours about recycling and the environment, promoting the development of a circular economy through the balancing of industry and environment



3. Exchange Activities

- Holding scientific experiment labs for local elementary and junior high school students
(Joint activity with the Society for Kosaka Town Resources, Technology, and Culture and the Akita Research and Development Center)
- Academic and information exchanges held through cooperation with universities and testing and research institutions



4. Training Activities

- Training on the operation of analysis equipment for regional corporations, etc. (Conducted through cooperation with the Akita Prefectural Industrial Technology Center.)
- Technical consultation and compliance guidance for natural resource corporations
- Support training activities for the International Institute for Mining Technology

PRIMARY OPEN-ACCESS RESEARCH EQUIPMENT



Akita Prefectural Government Natural Resources and Energy Division

Analyzer



Electron Probe Micro Analyzer (EPMA)

Analyzes samples using an electron beam for elemental composition and distribution for minute regions via wavelength- and energy-dispersive spectrography



Scanning Electron Microscope (SEM)

Uses secondary electrons produced by electron beam, allowing magnification by several thousand times to several tens of thousand times.



■ Main Project Undertakings

1. Operation of the Eco-town Center

Environmental recycling industry observer reception, industry coordination, information dissemination

Creation of “Akita as a center for the environmental recycling industry and environmental education”

2. Improved Hospitality

Train environmental industry guides, design tour and safety guides

Improved image and visitor appeal through a fully welcoming attitude

3. Development of Education Programs

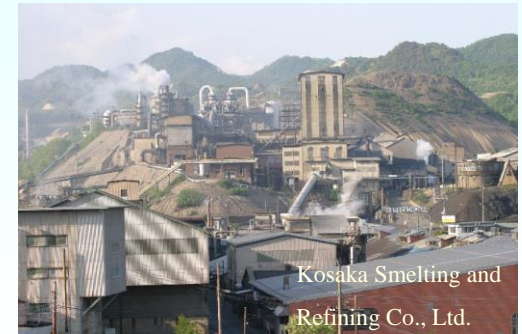
Establish hands-on learning programs, create supplementary reading materials, educational DVDs, etc. for educational tours

Heightened appeal as a Mecca for educational tours

4. Creation of Tourism Network Using Regional Resources

Coordination with nature, hot springs, cuisine, etc., and organization of promotional tours, etc.

More travel options, leading to greater satisfaction and more visitors



Kosaka Smelting and Refining Co., Ltd.

- ◎ Promote Akita as a prefecture on the cutting edge of recycling
• Image boost
- ◎ Promote environmental education
- ◎ Vitalize the regional economy



Kosaka Mine Offices