

## Site of a dam constructed at the ravine

The long furrow remaining on the rock is considered to be part of the



## Former sluice gate

The sluice gate was moved from time to time. The present one was constructed in the Taisho period (1912-1926). The one used earlier is on the left of the cut in the bedrock of the former dam and covered with stones.



technology was required to build a constantly inclined leat over the selected land, because

there was little difference in elevation. The 7km leat ending with a steep chute represents a brilliant feat and is testament to the high levels of construction technology at

# Sekiyoshi Sluice Gate of Yoshino Leat



Until steam engines were fully introduced, Shuseikan factories relied on waterwheels to drive large machines. As there was no large river nearby in the Iso area, it was decided to make a chute and let water fall with great force from Yoshino Plateau. Yoshino Leat-built to supply water to Sengan-en villa of the Shimadzu family-was renovated and a new leat was added in 1852 in order to supply water constantly to Shuseikan factories. The upstream of Inari River is called Abeki River, and the river narrows near Sekiyoshi. The water was blocked and then directed into the Leat through the sluice gate.

# ACCESS

- ●Route from Point ① (from Gandobashi bridge) entrance through the farm road)
- \*About a 8 minute walk, 450m each way
- \*Parking space for 10 cars at Sekiyoshi Local Product shop and 5 cars next to Nissei Gallery Tohonkan is available.
- Walking route from Point ② (from Tenohirabashi) bridge to the walking trail along the leat)
- About a 12 minute walk, 700m each way.
- \*The path along the leat is for pedestrians only. Car entry is not permitted.
- No parking spaces are available. [Points of Attention]
- \* Be cautious of falling near the river or waterway
- especially for children

[Information] Please call 099-227-1940. Cultural Assets Division agement Department, Board of Education, Kagoshima City

# Terayama Charcoal Kiln



Shuseikan factories produced cast-iron cannons, artillery shells and glass products. Extremely high temperatures of about 1500°C were necessary to melt iron and glass, but Satsuma Clan did not produce coals and relied on charcoal for high heat. Terayama is blessed with an abundant supply of trees of hardwood such as Castanopsis and oak that produce high quality charcoal. Satsuma Clan built charcoal kilns and used charcoal as fuel at the Shuseikan factories in the Iso area. The kilns produced 'white charcoal' known for its strong heating power.

# ACCESS

- Route from Point 1
- (eastern walking trail entrance) \*About a 15 minute walk. 800m each way.
- Parking spaces are available at Terayama Fureai Park.
- \*Sightseeing spots on the way include the "Monument Commemorating the Land Cultivation by Saigo Takamori" and a water source.
- Route from Point 2 (western walking trail entrance)
- \*About a 3 minute walk, 200m each way
- \*Parking space for six cars is available near the
- walking trail entrance.

  \* The ruins of the charcoal kiln can be viewed from above.

# [Points of Attention]

\*Please watch your step. The walking trail is unpaved and part of it is rather steeply sloped.

(Information) Please call 099-227-1940, Cultural Assets Division, Management Department, Board of Education, Kagoshima City





The arch-shaped opening and the

inner surface of a huge charcoal kiln

dome were built tightly with thick

blocks of tuff. The structure was

sturdy enough to sustain extremely

high heat and the weight of a domed

ceiling made of clay.

## Monument of Honor with dedication by Hatta Tomonori

The Satsuma clansman, Hatta Tomonori, served at the official Satsuma residence in Cyoto. He learned tanka poetry and later ecame the officer of tanka poetry at the Imperial Household Department, The stone

inscription tells us what Shimadzu Nariakira achieved, how the kiln was constructed and how intensely the poet wished for eternal prosperity.

# ◆ Text of the inscription

domestic and overseas sources. His greatness is also evident in the construction of charcoal kilns. The first and second kilns are completed and the masons are busily at work on the third one. The lord says, "Cut down big trees and leave small ones, and they will become good materials for charcoal in one hundred years' time. Then, the kiln will keep working and the charcoal industry will prosper eternally." These words deserve being inscribed in stone and passed on to future generations.

# Kiln wall built of tuff blocks

Shimadzu Nariakira is a great lord who has developed a wide knowledge from both



# Sites of Japan's Meiji Industrial Revolution Iron and Steel, Shipbuilding and Coal Mining













Approx. 35 minutes by Nangoku Kotsu bus (Miyanoura-danchi line). Embark at East Boarding Point No.3, disembark at Sanshubaru gakuen-mae bus stop, and walk approx. 20 minutes. [By Car] From JR Kagoshima Chuo Station (Approx. 14km, 45 minutes)

Approx. 50 minutes by Kagoshima City View bus or about 30 minutes by Machi-meguri bus. Embark at East Boarding Point No.4 and disembark at Sengan-en-mae bus stop. The Shuseikan is near the bus stop. [By Car] From JR Kagoshima Chuo Station (Approx. 6.0km, 20 minutes)
Drive north-east from the station. Pass the Terukumi Shrine on National Route 10, then go to
Inart-cho. After passing through Torigoe Tunnet, you will reach the Shuseikan area. Parking is

Sekiyoshi Sluice Gate of Yoshino Leat [By Public Transportation] From JR Kagoshima Chuo Station Approx. 30 minutes by Nangoku Kotsu bus (Ishiki-danchi, Midorigaoka-danchi or Honjo line). Embark at East Boarding Point No. 11, disembark at Sekiyoshi-no-sosuiko-iriguchi bus stop, and walk approx. 8 minutes. [By Car] From JR Kagoshima Chuo Station (Approx. 10km. 30 minutes)

Drive north-east from the station. Pass the Terukuni Shrine on National Route 10, then turn left at Kamihonma-chi intersection and go to Pref. Road No.25. Drive about 400m and turn left at the Sakamoto Iriguchi

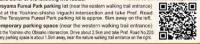
intersection. Drive about 6km and pass the Shimota Post Office. The entrance is on the right. Parking is nearby.

Drive north-east from the station. Pass Terukuni Shrine on National Route 10, then go to Inari-cho Before Torigoe Tunnel, take Pref. Road No.16 to the left in the direction of Kamou and Yoshida C. You can take either of the following two routes.

To the Terayama Fureai Park parking lot (near the eastern walking trail entrance)
Turn right at the Yoshino-shisho Iriguchi intersection and take Pref. Road
No.215. The Terayama Fureai Park parking lot is approx. 6km away on the left. To the temporary parking space (near the western walking trail entrance)

[By Public Transportation] From JR Kagoshima Chuo Station

available in the Sengan-en and liinkan visitor lots.



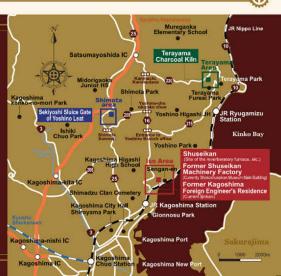


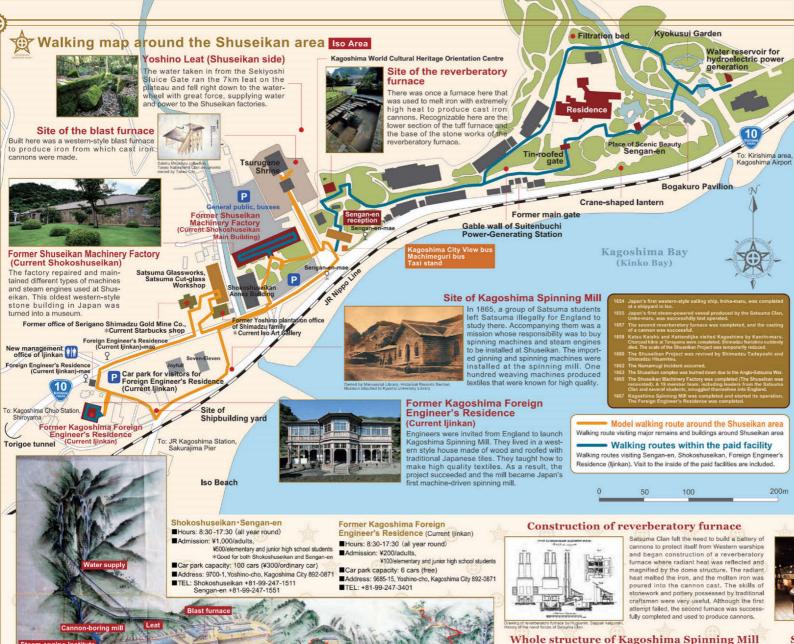




# KAGOSHIMA **WORLD HERITAGE WALK**

Sites of Japan's Meiji Industrial Revolution







# Shuseikan Project



As the Edo period (1603-1868) was drawing to an end. Satsuma Clan felt threatened by the expansion of Western countries into Asia and decided to take immediate action. Shimadzu Nariakira placed great emphasis on industrialization and modern military forces. The Shuseikan Project was a driving force toward modernization. The comprehensive industrialization plan covered manufacturing of iron, glass, pottery, medicine and textiles: construction of warships: production of cannons and other weaponry; and research and manufacturing of technologies such as steam engine, telegraph, photography and others. The facilities were built over a very short period of time from early 1850s to 1860s. The Shuseikan Project is one of the earliest examples of the Industrial Revolution as it was in Japan. The heritage components remaining in the area will demonstrate to coming generations the magnitude of the project that ushered in a modern age in Japan.

# Steam engine and cast iron pillars



200m

Former Shuseikan Machinery Factory (Current Shokoshuseikan) maintains to this day the flywheels and cast iron pillars that used to be part of the Kagoshima Spinning Mill. The existence of the huge flywheels indicates that the spinning mill was driven by beam engines that were widely used in the UK at the time. The cast iron pillars had hangers to support the shaft that transmitted the steam power to individual spinning machines,

# Satsuma Cut-glass and Satsuma pottery



The Satshu Mitoriezu collection depicts the Glass Workshop and other Shuseikan factories in great detail. At first, the workshop produced small items such as medicine bottles, but began producing large items such as deck prisms. Satsuma Crystal Cut-glass was developed in order to upgrade product value. Satsuma Cut-glass and Satsuma pottery were popular souvenirs for foreign visitors and important export items.



The Remains of Kagoshima Spinning Mill are buried underground. The mill played an important role as the first machine-driven spinning mill in Japan. The existing drawing shows an orderly layout of ginning, spinning and weaving machines imported from England.