

DAVIS EXPEDITION FUND

REPORT ON EXPEDITION/PROJECT

Expedition/Project Title: FIELDWORK IN THE GAOLIGONG SHAN, YUNNAN, AND STUDY VISITS IN CHINESE HERBARIA

Travel Dates: 29th July to 23rd September 2005

Location: Gaoligong Shan (Yunnan, China)

Group Members: Jin Hyub Paik

Aims: To study of wild population of *Heracleum* and general collection of flowering plants in Gaoligong Shan area

OUTCOME (not less than 300 words):-

1. Preserved collections

I participated in the general expedition team, which organisation is being undertaken jointly by colleagues in the Kunming Institute of Botany, Yunnan, P.R. China, California Academy of Sciences, U.S.A. and the Royal Botanic Garden Edinburgh, UK, and collected general herbarium specimens, specialising flowering plants and *Heracleum*. The trip has been very successful. We collected 4 - 8 duplicates of 3117 number (1st set is for KUN, 2nd set is for the CAS, 3rd one is for Edinburgh, 4th set is for local government 'Fugong' and the others for KUN and CAS for the exchange of specimens). → See the *Botanics*, Issue (23), p10-11. 2005

* Whole list of specimens collected can be supplied by request!

2. Field study

A crucial part of this research was the study of wild populations of *Heracleum*. In the field, ecologically and geologically different many areas, I analysed the variation within the wild populations and gathered herbarium and silica-dried leaf material for the DNA sequencing study. Through the observation in wild population, I can enhance the understanding of diversity forms of *Heracleum*.

3. Horticultural Important Collections

Most horticultural important collections were collected in the form of seed by RBGE members and me.

4. Study visits in Chinese Herbaria

After the fieldwork in the Gaoligong Shan, I had undertaken a series of study visits to the herbaria in Kunming (1/Aug. - 9/Aug. 2005), Chengdu (Sichuan: 10/Aug. - 16/Aug. 2005) and Nanjing (Jiangxi: 16/Aug. - 22/Aug. 2005). I consulted the relevant herbarium specimens of *Heracleum* species from SW China, and arranged the loan of selected specimens. They had excellent collections from Yunnan province and Xizang (Tibet). And there I met the Chinese Umbelliferae experts in Chengdu (Prof Pu Fa-ding) and Nanjing (Profs Liu Qi-xin) and established collaboration for future work.