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峨眉植物圖誌

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峨眉植物圖誌

ICONES PLANTARUM OMEIENSIIUM

Volume 1

Number 1

英國愛丁堡大學博士 方文培主編
國立四川大學教授

Edited by

WEN-PEI FANG, Ph.D., Professor

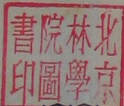
Department of Biology

College of Science

National Szechuan University

Chengtu and Omei-hsien*

Szechuan, China



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序

峨眉雲滿天下，其名也以佛剎聖地彰，以風景幽勝彰，以珍禽異獸奇花異卉彰，而自植物學觀點言之，其種類蘊藏之宏富，無種發現之繁多，亦宜其騰聽中外也。

昔時我國之山林林藪，每爲人跡罕到之處，野生植物僅具有醫藥價值者，始爲人所注意，故峨山植物雖自古遠之時，即曾爲人所採集，然皆耗於醫藥之需，自純植物學立場採取標本者，實以歐美植物學者爲始，遠在前清光緒三年時，即有英國駐渝領事巴伯氏 Baber 登臨峨山，觀察其植物情形，是爲外人來峨之始，越十年（前清光緒十三年）德國萊茵社教士費伯氏 Faber 首次採集峨山植物，氏居我國有年，熟識我國語言風俗，行旅所及，輒作植物標本之搜集，其峨山之行，獲得大量植物標本，經後鑑定，有一新屬及七十餘新種，是爲峨山植物知名於植物學界之首次也，至前清光緒三十三年，復有英植物學家威爾遜氏 Wilson 銜倫敦維琪苗圃公司 James H. Veitch & sons 之命來華西採集，氏於是年五月抵峨採集，歷時約半載，其所獲之種尤愈前人，後於余建德氏 Sargent 之峨氏植紀誌內發表之，新種至多，此外歐西人氏之來訪峨眉者，尚有多人，如荷時氏 Hosie 於前清光緒十年，巴特氏 Pratt 於前清光緒十六年，保太事氏 Potanin 於前清光緒十九年，均遊歷是山，或係旅行所經，或係採集遊程，觀察所及，均深識其盛大之植物寶藏，而播揚於世也。

近年我國科學進步，植物學漸爲國人所注重，國內植物學者及採集員之隨是山工作者，乃漸衆多。自中華民國十七年以來，先後在峨採集者計有陳嶸（十七年），汪發鏞（二十年），俞德浚（二十一年），鄭萬鈞（二十五年），杜大華（二十四年），錢崇澍（二十六至二十七年），許紹南（二十六年），鍾心煊（二十八至二十九年），孫祥鑑（二十八年），周鶴昌（二十七至二十八年），孫祥麟（二十八至二十九年），馬萬文（二十九年），李彩祺（二十九年），周承烈（三十年）諸君，編者曾於十七、十八、十九、及二十七年，數次採集於此，自二十八年夏，國立四川大學遷峨，編者教授植物學於斯校，乃得繼續此項工作，歷數載之不斷採集，發現此地植物之爲世人所不知者尚多。而外人所發表之峨眉植物，多散諸歐美各國簡編，其所名之新種，間有材料不全，及尚待攷證，而在疑難間者，實有更行探討之必要，爰是之故。峨山植物圖誌之編行，實不容再緩也。

本書所載之範圍，以峨眉山及其附近之新種植物，區原種植物，疑難不確種類及重要之經濟植物爲主，每種除備詳圖外並有說明，凡記載新種均用拉丁文，英文及中文三種文字，其餘均用中英文記載，拉丁文與英文記載係相互對照，而英文與中文記載則不盡同，前二者係按科學體裁，後者則稍近通俗形式，蓋爲業餘愛好植物之人士閱覽方便也。

本圖誌每卷分雙兩號，每號載五十圖，第一卷第一號所記載植物五十種中有新種五，峨眉植物種類廣博，已如前言，本書行當繼續刊行，以求正於海內外人士也。

此項工作進行時，承國立四川大學校長程天放先生之提倡與鼓勵，又承蕭拱模先生製圖，龔靜容先生協助編輯及採集員諸君搜集材料，使於抗戰期中，物質困難異常時，猶能照原定計劃進行，此編者深爲感謝者也。

中華民國三十一年五月

方文培序於峨眉保寧寺



AWT1/1497/03

EMENDATIONS

Plate	2, line	5, for	Siebold	read	Siebold.
"	2, line	8, "	yellowish	"	yellowish.
"	2, line	19, "	unmeroue	"	numerous.
"	2, line	38, "	gynaeium	"	gynoecium.
"	3, line	13, "	filiments	"	filaments.
"	3, line	18, "	rahchia	"	rhachis.
"	3, line	22, "	broader	"	bounding.
"	5, line	10, "	midribe	"	midrib.
"	5, line	29, "	May 50	"	May 23.
"	6, line	4, "	Szechuanensis	"	szechuanensis.
"	6, line	15, "	constricta	"	constricta
"	6, line	18, "	loculasa	"	loculosa.
"	6, line	32, "	Fruits	"	fruit.
"	6, line	40, "	longtudfnal	"	longitudinal.
"	7, line	17, "	inferior	"	superior
"	8, line	4, "	Erythina	"	Erythina.
"	8, line	5, "	smoth	"	smooth.
"	8, line	14, "	oral-red	"	coral-red.
"	8, line	20, "	flowers oral-red	"	flowers coral-red.
"	8, line	24, "	after and strike out es.	"	
"	9, line	25, "	april	"	April.
"	9, line	37, "	more	"	many.
"	10, line	4, "	kew	"	Kew.
"	10, line	8, "	foliolate	"	foliolate.
"	10, line	10, "	tacute	"	acute.
"	10, line	11, "	eeht	"	teeth
"	10, line	22, "	after tree strike out in.	"	
"	11, line	10, "	leaflets	"	leatlets
"	11, line	22, "	flesh	"	fleshy.
"	12, line	4, "	Hemslsey	"	Hemslay.
"	13, line	12, "	polygamsus	"	polygamous.
"	13, line	14, "	ovate-elliptical	"	ovate-elliptical.
"	13, line	23, "	pots	"	dots.
"	13, line	33, "	Opien bsien	"	Opien-hsien.
"	13, line	33, "	after ornamental twining add shrub and.	"	
"	14, line	7, "	matnred	read	matured.
"	15, line	11, "	brord	"	broad.
"	15, line	13, "	surfaae	"	surface.
"	15, line	14, "	lessly	"	less.
"	15, line	18, "	Flowers	"	flowers.
"	15, line	24, "	smara	"	samara.
"	16, line	6, "	mertes	"	metres.
"	16, line	17, "	diamsesr	"	diametre.
"	16, line	18, "	chartaceous	"	chartaceous.
"	16, line	26, "	flesh	"	fleshy.
"	16, line	32, "	high	"	high.
Third page after Plate 17, line 2, for Linnr					Linn.
Plate 18, line	15, for	Flowers fragrant, fragrant	read	Flowers fragrant, strike out the second fragrant.	

Plate	18, line	18, for	whith	read	white.
"	18, line	45,	(Fig.), of pistil	"	pistil.
"	19, line	12, "	aceous	"	aceous.
"	19, line	33, "	occasionally	"	occasionally.
"	20, line	4, "	Ohina	"	China.
"	20, line	15, "	pubescent	"	pubescent.
"	20, line	28, "	locality	"	locality.
"	21, line	34, "	Yu-lisen-ssu	"	Yu-hsien-ssu.
"	21, line	34, "	purplish	"	purplish.
"	22, line	11, "	after acuminate to	strike out to.	
"	22, line	16, "	aracemose	read	a racemose.
"	22, line	17, "	ong	"	long.
"	22, line	19, "	usually	"	usually.
"	22, line	23, "	covered	"	covered.
"	22, line	24, "	at	"	alt.
"	22, line	24, "	shrub	"	shrub.
"	23, line	5, "	Dauid	"	David.
"	22, line	32, "	Omeiin	"	Omei.
"	24, line	4, "	Hemsely	"	Hemsley.
"	24, line	7, "	ovate-oblong	"	ovate-oblong.
"	24, line	20, "	1.5 cm.	"	1.5 cm.
"	24, line	25, "	locality	"	locality.
"	25, line	2	from the bottom, for size	"	size.
"	26, line	2	for	GHALOPHYTUM	CALOPHYTUM.
"	26, line	39, "	Eurhododendron	"	Eurhododendron.
"	28, line	27, "	centimetres	"	centimetres.
"	28, line	28, "	centimetres	"	centimetres.
"	30, line	4, "	Willson	"	Wilson.
"	30, line	25, "	shroub	"	shrub.
"	31, line	32, "	usual	"	usually.
"	33, line	23, "	OME	"	OMEI.
"	34, line	26, "	whith	"	white.
"	34, line	34, "	W. P. Cheng	"	W. C. Cheng.
"	35, line	6, "	costulatum	"	costulatum.
"	35, line	26, "	base	"	base.
"	35, line	26, "	pistil	"	pistil.
"	35, line	28, "	capsules	"	capsules.
"	35, line	1	from the bottom, for leaf	"	leaf.
"	36, line	2, for	RHODODENDROM	"	RHODODENDRON
"	36, line	29, "	scally	"	scaly.
"	38, line	7	from the bottom, for Fig.	"	Fig.
"	36, line	7	from the bottom, for natural	"	natural.
"	36, line	7	from the bottom, for natural	read	natural.
"	36, line	2	from the bottom, for fruit	read	fruit.
"	37, line	8, for	leave	"	leaves.
"	37, line	8, "	2.5-3.5	"	2.5-3.5.
"	38, line	8, "	nervia	"	nervis.
"	38, line	19, "	baccous	"	baccus.
"	38, line	26, "	solitary	"	solitary.
"	39, line	9	from the bottom, for of the National	read	of National.

Plate	40, line 18, for	about	read	about.
"	40, line 23, "	materia	"	material.
"	40, line 28, "	british	"	British.
"	40, line 37, "	pestris	"	rupestris.
"	40, line 44, "	ther	"	the.
"	41, line 9, "	wtih	"	with.
"	41, line 14, "	yellowerb	"	yellowish.
"	42, line 9, "	irregulariy	"	irregularly.
"	43, line 7, "	foliousus	"	foliosus.
"	44, line 6, "	Primula	"	Primula.
"	44, line 7, "	Petiolate	"	petiolate.
"	44, line 19, "	recorted	"	recorded.
"	44, at the bottom of the plate, for	Primula Oreodoxa	read	Primula oreodoxa
"	45, line 8 from the bottom, for	cultivation	read	cultivation.
"	46, line 6, for	ovalifolia	read	ovalifolia.
"	46, line 25, "	entends	"	extends.
"	46, on the plate, for	Primul ovalifolia	"	Primula ovalifolia.
"	47, line 9, for	rarly	"	rarely.
"	47, line 11, "	furface	"	surface.
"	47, 6&7 from the bottom, for	may	"	May.
"	47, line 5 from the bottom, for	characterized	read	characterized.
"	47, line 2 from the bottom, for	petale	read	petals,
"	48, line 11, for	serves	"	nerves.
"	49, line 26, after It strike out is.			
"	50, line 7, for	Succarini	"	Zuccarini.

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Plate 1

CARPINUS FANGIANA Hu.

Betulaceae.

Carpinus Fangiana Hu in Journ. Arn. Arb. X (1929), 154.*Carpinus Wilsoniana* Hu in Journ. Arn. Arb. X (1929), 135.

Deciduous tree 10 to 15 metres rarely up to 20 metres high; bark grey or brownish grey, smooth or rarely scaly; branchlets purple or greenish-purple, glabrous, with conspicuous ovate lenticels; winter-buds axillary, conical or long conical, with many imbricate ovate scales ciliate on the margin, glabrous on both sides. Leaves chartaceous, alternate, usually 2-ranked, ovate-oblong, rarely ovate, 11-16 cm. long, 4.5-6 cm. broad, acuminate on the apex, subrotund or subcordate at the base, biserrate on the margin, teeth acute with slender acumen on the apex, yellowish hirsute especially on the nerves while young, glabrescent when matured or slightly pubescent on the nerves of lower surface, upper surface brightly green, lower surface pale green, midrib slightly grooved above, prominent below, lateral nerves 25-30 rarely 34 pairs, reaching to the tips of teeth, more or less depressed above, prominent below, 4 mm. distant; petioles, 1 cm. long, hirsute while young, glabrous when matured. Flowers small, greenish yellow, unisexual, monoecious, appearing while the developing of leaves; staminate flowers in axillary pendulous pubescent catkins about 12 cm. long, bracts greenish purple or greenish yellow, triangular-ovate, 3 mm. long, puberulous outside, pubescent inside, with a stalk 1 mm. long, without perianth, stamens 13-15, inserted at the base of bracts, filaments slender, usually 2-forked near apex, anthers ovoid, deep yellow with a tuft of hairs on the apex; pistillate flowers in terminal erect pubescent catkins 3 to 5 cm. long, bracts lanceolate, 6-8 mm. long, sparsely hirsute outside, puberulous inside, enclosed 2 flowers, bractlets subsessile, ovate, 3 mm. long, pubescent, perianth adnate to the pubescent ovary, with 4-5 teeth at its apex, style short and stout, with 2 slightly curved linear stigmas. Fruit a slightly ribbed oblong-ellipsoid pubescent nutlet 4 mm. long, 2-3 mm. in diameter, with persistent style, subtended by a chartaceous ovate bract 15 mm. long, 8 mm. broad, slightly and remotely serrate near the apex, with a hirsute stalk 2 mm. long, in fruiting catkins 20-27 cm. long, rarely to 35 cm. long.

MOUNT OMEI: Hung-chun-ping, alt. 1200 m., in shaded slopes, small tree 7 metres high, S.S. Chien, No. 5505, May 5, 1936; at roadside from Hung-chun-ping to Chiu-lao-tung, alt. 1500 m., in forests, small tree 6 metres high, W.P. Fang, No. 12709, July 29, 1933; same locality, in forests, small tree 5 metres high, W.P. Fang, No. 14666, May 18, 1940; same locality, small tree 6-7 metres high, T. C. Lee, No. 3105, July 31, 1940; same locality, T. C. Lee, Nos. 3762 & 4701, October 1940; same locality H. C. Chow, No. 7518, June 12, 1935; same locality, C. W. Yau, No. 2842, June 1939; Hsi-hsin-so, alt. 1600 m., in woods, tree 14 metres high, C. L. Sun, No. 2265, May 31, 1940; Chiu-lao-tung, alt. 1800 m., C. L. Sun, No. 1827, May 1, 1940; west of Mt. Omei, Opien-hsien, at the bank of a river, tree 10 metres high, bark greyish brown, W. C. Cheng, No. 6080, June 30, 1936; Opienhsien, Shaping, small tree 6 metres high, C. L. Sun, No. 973, August 11, 1939.

A very distinct species is characterized by its long fruiting catkins and by its ovate-oblong leaves with about 30 pairs of lateral nerves. It was discovered at Chiu-lao-tung of Mt. Omei and has been known as a common species in southwestern Szechuan, eastern Sikang and northern Kweichow.

W. P. Fang.

Fig. 1, a fruiting branch (natural size);

2, a bract with a nutlet (10 times enlarged);

3, a staminate inflorescence (natural size);

4, a staminate flower (10 times enlarged);

5, a pistillate inflorescence (natural size);

6, a pistillate flower (10 times enlarged);

7, a portion of the lower surface of a young leaf to show the hairs (10 times enlarged)

圖版一

方氏鵝耳櫪

樺木科

落葉喬木。高十至十五公尺，罕達二十公尺；樹幹灰色，或棕灰色，光滑，或呈鱗片狀；幼枝紫色或青紫色，無毛而具顯明卵形皮孔；冬芽腋生，圓錐形或長圓錐形，被多數卵形週圍有纖毛芽鱗，兩面俱光滑無毛。葉紙質，互生，通常排成兩行，卵狀長方形或罕為卵形，長十二至十六公分，寬四至六公分，先端尖尾形，基部亞圓形或亞心臟形，葉緣具淺鋸齒，齒狀尖銳。葉背幼時具淡黃色纖毛，尤以葉脈上為多，及長變為光滑或僅脈上稍具毛，葉面鮮綠色，葉背蒼白淡綠色，中脈在葉面微凹，在葉背突出，側脈二十五至三十對，罕多至三十餘對，脈長直達齒緣之頂，在葉面下凹，在葉背突出，每對間距離四公厘；葉柄長一公分，幼時有纖毛，長後脫落。花小，黃綠色，單性，大小蕊花同株，開花與發葉同時；小蕊花成腋生下垂被毛之柔荑花序，長約十二公分，苞片青紫色或黃綠色，三角卵形，長五公厘，外面具柔毛，內面被細毛，具柄長約一公厘，無花被，小蕊十三至十五本，着生於苞片基部，花絲細長，於近頂端處分為二枝，花藥卵狀，深黃色，頂端被毛一叢；大蕊花成頂生直立被毛柔荑花序，長三至五公分，苞片披針形，長六至八公分，外面具甚少纖毛，內部具柔毛，每苞片具二花，小苞片無柄，卵形，長三公厘，被毛，花被與被毛之子房貼合，頂端齒裂為四至六片，花柱粗短，其稍向外曲之線形柱頭二枝。果實為一稍具棱肋並被細毛之長方橢圓形小堅果，長四公厘，直徑二至三公厘，花柱宿存於其上，果外被紙質卵形苞片，長十五公厘，闊八公厘，先端有稀疏淺鋸齒，基部具被纖毛之柄，長二公厘，果序長二十至二十七公分，罕達三十五公分。

產於峨山海拔一千二百至一千八百公尺間，趙洪椿平，息心所，造九老洞，均多此樹，峨山以西，經峨邊沙坪等處迄西康東部，此樹亦為習見，此外更遍佈於四川西南部及貴州北部。

本種首次發現於峨山九老洞，四月開花，五六月果實成熟，其長形果序，卵狀長方形之葉及其約為三十對側脈均為確定本種之特性。

圖解：1. 着果之枝（原大）；2. 苞片及一堅果（放大十倍）；3. 小蕊花序（原大）；4. 小蕊花（放大十倍）；5. 大蕊花序（原大）；6. 大蕊花（放大十倍）；7. 幼葉葉背之一部示其所被之毛（放大十倍）

蕨類植物圖志



1. *Carpinus Langiana* Hu.

Plate 2.

MAGNOLIA OFFICINALIS Rehder et Wilson.

Magnoliaceae.

Magnolia officinalis, Rehder et Wilson in Sargent, Pl. Wilson. I (1913), 391.

Magnolia hypoleuca, Diels (non Siebold et Zuccarini) in Engler, Bot. Jahrb. XXIX (1900), 311. (Fl. Central China).

Small tree 7-9 metres high; bark grey; young branchlets of the current year greenish and densely silky tomentose at first, then sparingly pubescent, those of more than one year old yellowish or yellowish-grey or grey, covered with woolly indumentum or quite glabrous on still older ones, lenticels rounded or elliptical, prominent, leaf-scars large, elliptical or subcordate; buds triangular-ovoid or horn-like, greenish with rather scanty pubescence. Leaves decussate, coriaceous, green, glabrous above, pale glaucous and sericeous beneath, oblong-ovate, narrow towards the base, 25-45 cm. long, 12-24 cm. broad, apex rotund and very shortly acuminate, rarely emarginate, base rounded or broadly cuneate, midrib prominent beneath, more or less villose pubescent, lateral nerves 25-35, elevated beneath; petiole subterete, greenish, sparingly pubescent or glabrescent, 28-45 mm. long. Flowers solitary, terminal on young branchlets, subtended by lvs, whitish, fragrant(?), about 15 cm. across, peduncles stout, sericeo-villose; sepals 3, oblong-obovate about 10 cm. long, 5 cm. in diameter, greenish white usually tinged purplish, petals 9-12, whitish, spoon-shaped, 7-9 cm. long, 3.4-5 cm. broad, stamens numerous, matured anthers yellowish-white, 1.5 cm. long, filaments 5 mm. long, dilate at base; gynaecium about 3.5 cm. long, oblong-ovoid, carpels numerous, ovary elliptic-oblong, dorsally grooved, greenish-white, about 1 cm. long, stigma reddish, 5-8 mm. long, decurrent on inner surface, ovules 2 in each carpel. Fruit oblong ovoid, rarely cylindrical-oblong, 12 cm., long and 6 cm. in diameter, truncate at apex, subrotund at base, brownish-purple, all the carpels matured, carpels subrectangular with a beak 2-3 mm. long and recurved outward forming a right angle with the axis of the fruit, peduncle stout, 25 mm. long, 15 mm. in diameter, brownish, glabrous; seeds 1 in each carpel, triangular-obovoid, compressed, testa black, 11 mm. long, 8 mm. in diameter, ventral slightly sulcate.

MOUNT OMEI: Wan-nien-ssu, alt. 1159 m., cultivated in the temple, tree 8 metres high, flowers white, *W.P. Fang*, No. 18394, April 18, 1942; Kuan-hsin-po, alt. 1370 m., cultivated in the temple, small tree 7-10 metres high, flower white, *W.P. Fang*, No. 16629, May 12, 1941; Chu-tien, alt. 1920 m., cultivated in the temple, tree 7-8 m. high, flower white, *C.L. Sun*, No. 401, May 30, 1939.

This is a distinct species and differs from other species by the grey coloured bark and oblong-ovoid fruit. Those having leaves distinctly bilobed at apex had been classified to var. *biloba* Rehder et Wilson of Kiangsi,* but they are found also in Fang's 13493 (from Kuan-hsien) and 16629. Therefore var. *biloba* is either a form of the type species or identical with it. It is usually a handsome tree with giant foliage and showy flowers and has been commonly cultivated in the temples on Mount Omei as a garden favourite as well as cultivated by the inhabitants for the medicinal uses of its bark and floral buds.

C. Y. Cheng

Fig. 1, a flowering branch (1/2 dimension):

2, a flower having perianth removed showing stamens and gynaecium (natural size);

3, a fruit (1/2 dimension);

4, a matured carpel (natural size);

5, a portion of leaf showing hairs (10 times enlarged).

*Rehder et Wilson in Sargent, Pl. Wilson. I (1913), 392.

圖版二

厚朴

木蘭科

(000) 小喬木高七至十公尺；樹幹灰色，本年生幼枝淡綠色，幼時被密厚白色絲狀短毛，稍長毛漸稀少，一年以上幼枝淡黃色或黃灰色或灰色，密被細毛，較老之枝則殊光滑，皮孔圓形或橢圓，枝上葉痕大而顯著；芽三角卵形或角狀，淡綠色，被疏鬆之毛。葉縱橫相錯，革質，葉面綠色無毛，葉背藍綠有白粉狀物附着，被絲狀細毛，長方倒卵形，基部狹小，長二十四至四十五公分，闊十二至二十四公分，先端圓形具極短之尖尾，罕為內缺成二裂片，基部圓形或闊楔形，中脈於葉背突起，在長成之葉中脈甚為光滑，尤以基部為然，側脈二十五至三十五對，在葉片突起；葉柄亞圓形，淡綠色，被毛甚少，或基部光滑，長二十八至四十五公厘。花單生於幼枝之頂端，白色，芳香(?)，直徑十五公分；花梗粗壯，被絲狀柔毛，花萼三片，長方倒卵形，長約十公分，闊五公分，白綠色，常帶紫紅色渲染，花瓣九至十二，白色，匙形，長七至九公分，闊三十至四十五公厘，小蕊多數，成熟花藥黃白色，長十五公厘，花絲長五公厘，基部寬大；雌器長約三十五公厘，長方卵形，心皮多數，子房長方橢圓形，背部滿狀，白綠色，長約一分，柱頭帶紅色，長五至八公厘，向內一面齒狀，每心皮內有二枚胚珠。果長方卵形，罕為圓柱長方形，長十二公分，直徑六公分，頂端截平，基部近於圓形，紫棕色，所有心皮俱皆發育成熟，心皮近於方形，頂端具尖頭，長二至三公厘，向外彎曲與果之長軸垂直，果柄粗壯，長二十五公厘，直徑十五公厘，棕色，光滑無毛；每心皮具種子一枚，三角倒卵形，側扁，種皮黑色，長十一公厘，直徑八公厘，腹面有淺溝。

峨眉山萬年寺觀心坡及初殿等處栽培者生長甚佳五月開花

本種植物為一美觀之樹，具大形樹葉，叢集小枝之頂端，白色美麗之花，以其灰色樹幹及長方卵形果而別於其相近之種。在方氏13494及16629號標本內，各有一葉先端成明顯二裂片，此為本種之變種凹葉厚朴(*Magnolia officinalis* var. *biloba*)之特徵，故作者深信凹葉厚朴，應為此種之變形或完全相同，此種樹正在峨山諸廟宇中普遍種植用為觀賞植物，而附近居民亦多種植，蓋取其樹皮及花芽以為藥用也。

圖版二：(1) 着花之枝(縮小二分之一)；(2) 花柄法其花梗以示大小蕊(原大)；(3) 一果實(縮小二分之一)；(4) 一成熟之心皮(原大)；(5) 葉之一部分以示其毛(放大十倍)。

(六)

木 荷

峨眉植物圖志



2. *Magnolia officinalis* Rehder et Wilson

Plate 3.

MICHELIA WILSONII Finet et Gagnepain.

Magnoliaceae.

Michelia wilsonii, Finet et Gagnepain in Bull. Soc. Bot. France, LII. Mem. 4. (1906), 45, t. 7A.*Michelia sinensis* Hemsley et Wilson in Kew Bull. (1906), 149.

Tree 8-12 metres high; young branchlets of the current year greenish with scanty pubescence, compressed, those of more than one year old olive-green, free from pubescence, compressed or subterete, lenticellate, each node marked with a clear line; buds filiform or subcylindrical, brown or brownish, sericeous. Leaves coriaceous, oblanceolate or narrowly lanceolate, rarely elliptic-oblanccolate or oblong-ovate, 8-18 cm. long and 3-6 cm. wide, apex short acuminate rarely acute, base cuneate or broadly cuneate, silky tomentose on both sides when young, then glabrous above, slightly glaucous and puberulent beneath, midrib prominent beneath, lateral nerves alternate, tertiary nerves reticulate; petioles 1.5-4 cm. long, green glabrous. Flowers yellowish, fragrant, about 5 cm. long, 6 cm. across, subterminal on branch, axillary to leaf, peduncle stout about 1 cm. long, 5 mm. in diameter, perianth-lobes 9-12, oblanceolate, 4-5 cm. long and 2-3 cm. wide, the inner the smaller; stamens numerous, mucronate, anthers yellowish, about 1 cm. long, filaments greenish, about 2 mm. long; gynaeceum 1.5 cm. long, carpels numerous, ovary elliptic-ovoid, greenish, sparingly pubescent, about 1 mm. long, style nearly as long as ovary, stigma small, ovules about 14. Fruit purple-brown with conspicuous yellowish lenticels, 12 cm. long, rachis twisted, about 1/4 carpels developed; matured carpels sessile, oblong-cylindrical, slightly constricted at middle portion or ovoid, 15-25 mm. long, 9-12 mm. in diameter, with a short and recurved beak at its apex, dehiscent by 2 valves, the dorsal suture dehiscent only near the tip and the basal 1/2 remaining indehiscent; seeds 1-2 in each carpel, nephros when 1, subovoid when 2, and truncate at the broader part, dull reddish-brown.

MOUNT OMEI: Kuan-hsin-po, alt. 1300 m., tree 10 metres high, C. W. Yao, No. 4346, August 23, 1939; 5 li² down from Chu-tien to Wan-nien-ssu, in forests, tree 8 metres high, flowers yellow or yellowish, only one tree seen, W. P. Fang, No. 16598, May 12, 1941; same locality, alt. 1041, tree 12 metres high, leaves oblanceolate, glabrous, flowers yellow, fragrant, W. P. Fang, No. 16599, March 30, 1941.

This species is distinguished from its allies by its cuneate and reticulate leaves usually bluish-green at its lower surface and by its flowers with quite long style. The specimens cited agree with the original description of this species except the longer petioles, which according to Hemsley and Wilson on their description of this species under the name *Michelia sinensis* are "rather under 1.5 cm. long", and the leaves shortly puberulent beneath. (No. 16698) found wild in a forest, has leaves much smaller than those of 15969, and the base of the latter tapering into cuneate. It is fairly common in the forests or at the margin of forests in the vicinity of Kuan-hsin-po and Hsi-hsin-so.....C. Y. Ch'eng.

Fig 1, a flowering branch (natural size);

- 2, gynaeceum (10 times enlarged);
3, a stamen (10 times enlarged);
4, & 5, single pistil & section of pistil showing the arrangement of ovules (20 times enlarged);
6, a portion of leaf showing the details on the leaf-back (10 times enlarged).

圖版三

威氏黃心樹

木蘭科

喬木高八至十二公尺；本年生幼枝帶綠色，被稀疏之毛，略呈扁形，一年以上者微澀青色，無毛，扁形或略成圓形，具皮孔，每節有環形綫痕；幼芽綫形或近於圓柱形，棕色或淡棕色，被毛帶絲狀光澤。葉革質，倒披針形或披針形，罕為橢圓倒披針形或長方形，長八至十八公分，闊三至六公分，先端短尖尾狀罕為銳形，基部楔形或闊楔形，幼時兩面均被絲光白色短毛，及長葉面無毛，葉背呈黃綠色有稀疏絲狀絨毛，主脈在葉背凸出，側脈互生，三迴支脈網狀，葉柄長十五至四十公厘，綠色無毛。花黃色，芳香，長約五公分，直徑約六公分，着生於枝頂端附近之葉腋間。花梗粗壯，長約十公厘，直徑約五公厘，花被九至十二瓣，倒披針形，長四至五公分，闊二至三公分，愈在內面者愈小；小蕊多數，頂端尖形，花藥淡黃色，長約一公分，花絲淡綠色，長約二公厘；大蕊長十五公厘，心皮多數，子房橢圓狀卵圓形，淡綠色，長約長一公厘，被毛甚少，花柱與子房等長，柱頭細小，每心皮具胚珠約十四枚，幼果灰色，被絲光短毛，成熟之果紫棕色，上具明顯淡黃色皮孔，長約十二公分，果軸扭曲，心皮約四分之一發育成熟，成熟心皮無柄，長方圓柱形，中部略向內收縮，或為卵圓形，長十五至二十五公厘，直徑九至十二公厘，頂端具短粗略曲之尖頭，成熟後裂開成二瓣，背縫僅近頂端處裂開，基部一半通常不裂，每心皮內具種子一枚或二枚，一枚時為腎形，二枚時則近於卵形，在二種子交界處各着生半形，點暗紅棕色。

峨眉山觀心坡息心所，及至初殿沿途森林中均產之，三月至五月開黃色之花，異常美觀。

本種與其鄰近諸之區別，在於其藍綠色背之楔形葉，其網狀脈，及其較長之花柱。峨眉所採之標本大致與原記載符合，惟種葉柄較長，且葉背有絲狀短毛。方氏 1598 號標本之葉甚小，葉之基部闊楔形或近於圓形，在 1599 號則具較大之葉及漸狹而成楔形之葉基。

圖解：1. 着花之枝（原大）；2. 大蕊（放大十倍）；3. 小蕊（放大十倍）；4及5. 單獨心皮及心皮之切面示胚珠之排列（放大二十倍）；6. 葉之一部示葉背之構造（放大十倍）。

峨眉植物圖志



3. *Michelia wilsonii* Finet & Gagnepain

Plate 4.

MICHELIA BODINIERI Finet et Gagnepain.

Magnoliaceae.

Michelia Bodinieri, Finet et Gagnepain in Bull. Soc. Bot. France, LIII (1906), 53.

Tree 12-20 metres high; young branchlets of the current year olive-green, free from pubescence, faintly lenticellate, those more than one year old greenish-brown or niger-brown with many prominent lenticels; buds oblong-lanceolate or oblong-ovoid, 3.3 cm. long and 1.8 cm. wide, scales greyish-brown or golden brown silky pubescent; Leaves evergreen, conduplicate in bud, simple, coriaceous, deep lustrous green above, light green beneath, glabrous on both surfaces, oblanceolate or lanceolate, 15 cm. long and 3.8-5 cm. wide, with acute or shortly acuminate apex and broadly cuneate base, margin entire; midrib depressed above, prominent beneath, primary veins pinnate and alternate, inconspicuous on both sides; petiole 15-18 mm. long, concave above; stipules unseen. Flowers solitary, axillary to leaf, on a short, thickened golden-brown silky pubescent peduncle, 8-10 mm. long, 10 mm. across, ginger-yellow with a mild scent, 4 cm. long, 5 cm. across, perianth-lobes 6 rarely 8, in 2 whorles, the outer 3, larger, oblong-ovate, 40-45 mm. long, 20-24 mm. wide, the inner 3 smaller, oblanceolate with obtusish or obtusish acute apex, 4 cm. long, 1-1.3 cm. wide; stamens numerous, spirally arranged on a short rhachis below the carpels anthers greenish-yellow, linear, 1.2 cm. long, 2-celled, slit lengthwise, filaments about 2 mm. long, purple, carpels numerous, distinct, borne on a gynophore about 1 cm. long, greenish, glabrous, ovary elliptic-ovoid, 1 mm. long, 5 mm. across, style short, about 1 mm. long, stigma small, ovules 8-12 on axile placentation. Fruit unknown.

MOUNT OMEI; Hung-chun-ping, alt. 1200 m., in forests, tree 20 m. high, bark grey or blackish-grey leaves coriaceous, persistent, flowering buds densely brown hairy outside, common, *W. P. Fang*, No. 13840, February 27, 1940; same locality, tree 15-20 m. high, flower yellowish, fragrant, *W. P. Fang*, No. 15926, March 19, 1941; Kuan-hsin-po, alt. 1300 m., tree 20 m. high, flower yellowish white, *W. P. Fang*, No. 13907, March 15, 1940; same locality, tree 15-25 m. high, bark dark grey, *C. L. Sun*, Nos. 1463 & 1469, April 11, 1940; Ta-ping, alt. 1400 m., at roadside, small tree 3 m. high, flowering buds yellowish hairy outside, occasionally, *T. C. Lee*, No. 4506, April 2, 1940; Hua-yen-ting, alt. 1950 m., tree 20 m. high, flower yellowish, fragrant, *W. P. Fang*, No. 15733, December 20, 1940.

This species, belonging to the group whose leaf-back and gynaeceum are free from any pubescence, is readily separated from those with pubescent leaves and gynaeceum. It is characterized by its glabrous lanceolate leaves, large flower with very short-styled pistils and buds and peduncles covered with dense golden-brown pubescence.

.....C. Y. Cheng.

- Fig. 1, a flowering branch (natural size);
 2, The gynaeceum with gynophore (natural size);
 3, a pistil longitudinally dissected (magnified 10 times).