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Contributions to the Flora of Siam. Additamentum XII

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Source: *Bulletin of Miscellaneous Information (Royal Botanic Gardens, Kew)*, Vol. 1922, No. 5 (1922), pp. 165-174

Published by: Springer on behalf of Royal Botanic Gardens, Kew

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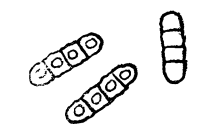
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Hendersonia Osteospermi, Wakef.

Maculae orbiculares, concentricae zonatae, pallidae, zona obscuriore brunnea circumdatae. *Pycnidia* epiphylla, sparsa, minuta, pariete tenui plectenchymatico. *Conidia* cylindracea fusca, asperulata, 3-septata, non vel vix constricta, $20-23 \times 6-7\mu$.



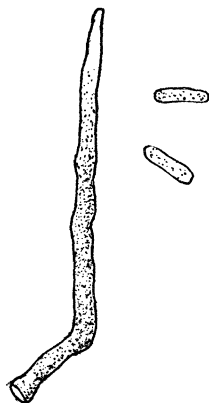
Hendersonia Osteospermi.
Conidia $\times 500$.

SOUTH AFRICA. Kewboom, Cape Province, on living leaves of *Osteospermum*, P. A. Van der Bijl, No. 409.

The species is characterised by the irregular outline of the spores. The wall can scarcely be called verrucose, but apparently a few minute flattened warts are present which give a somewhat wavy appearance when the spore is viewed in optical section.

Colletotrichum Pterocelastris, Wakef.

Maculae amphigenae, parvae, 1-1.5 mm. diametro, sparsae vel confluentes, pallidae, purpureo-cinctae. *Acervuli* minutissimi, atri, pauci, in centro macularum insidentes. *Setulae* numerosae, fusciculatae, cylindraceae, apice hyalino rotundatae vel attenuatae. *Conidia* oblonga, hyalina, guttulata, $15-17 \times 4\mu$.



Colletotrichum Pterocelastris.
Seta and Conidia $\times 500$.

SOUTH AFRICA. Knysna, Cape Province, on living leaves of *Pterocelastrus variabilis*, Sond., P. A. Van de Bijl, No. 404.

XXVI.—CONTRIBUTIONS TO THE FLORA OF SIAM.**ADDITAMENTUM XII.**

W. G. CRAIB.

Tetracera Loureiri, *Pierre mss.* nom. nov. *T. fragrans*, Ridley in Journ. Str. Br. Roy. As. Soc., No. 59, p. 62 (1911) non Willdem. et Th. Dur. (1899). *T. sarmentosa*, Vahl, var. *Loureiri*, Finet et Gagnep. in Fl. Gén. Indo-Chine, I. p. 16. *T. assa*, DC., var. *Loureiri*, Finet et Gagnep. in Bull. Soc. Bot. Fr., Mém. 4, p. 3.

Bangkok, *Zimmermann* 74, 180, *Kerr* 4357, *Marcan* 325, *Mrs. Williamson* (ex *Ridley*, l.c.), Anghin, *Schomburgk* 261. Sriracha, *Mrs. D. J. Collins* 243. Muong Pran, *Pierre* 225. Luang, *Pierre* 224. Prachuab, *Winit* 318.

Distr. Perlis, Cambodia, CochinChina.

Siamese name, Thao orakon (ex *Winit*).

Manglietia Garrettii, *Craib* [Magnoliaceae-Magnolieae]; a *M. glauca*, Blume, foliis majoribus, pro rata angustioribus, nervulis rete laxius efficientibus, fructu majore recedit.

Arbor ramulis primo adpresse puberulis cito glabrescentibus cinereis pauci-lenticellatis. *Folia* oblanceolato-oblonga vel oblonga, apice obtuse acuminata, basi cuneata lateve cuneata, ad 28 cm. longa et 9.3 cm. lata, rigide chartacea, glabra, subtus pallidiora, nervis lateralibus utrinque 12–16 intra marginem anastomosantibus supra subprominulis subtus prominentibus, nervulis reticulationem pagina utraque subprominulam efficientibus, margine integra; petioli ad 3 cm. longi, supra parum canaliculati; stipulae fugaces, 4 cm. longae, adpresse ferrugineo-puberulae. *Flores* adhuc ignoti. *Fructus* ei *M. glaucae*, Blume, similis sed major.

S.W. of peak Doi Pah Khaw, near crest of ridge, 1320 m., *Garrett* 114.

Michelia Kerrii, *Craib* [Magnoliaceae-Magnolieae]; ab affini *M. Champaca*, Linn., foliis arcte reticulatis subtus saltem juvenilibus glaucis, floribus albis differt.

Arbor circa 10 m. alta (ex *Kerr*); ramuli graciles, juventute molliter adpresse ferrugineo-pubescentes vel subsericei, mox glabrescentes, fusco-corticati, inconspicue pauci-lenticellati. *Folia* lanceolata, oblongo-lanceolata, vel late lanceolata, apice acuminata vel gradatim angustata, summo apice breviter apiculata, basi saepissime inaequilateralis, cuneata, vel saepe latere altero cuneata, altero fere rotundato-cuneata, usque ad 15 cm. longa et 4.3 cm. lata, rigide chartacea, primo supra pilis sericeis sparse instructa, subtus pilis brevibus albis densius instructa, mox glabra vel fere glabra, supra sicco viridia, subtus saltem juvenilia sed saepissime et matura glauca, nervis lateralibus utrinque circa 12 bene intra marginem anastomosantibus pagina superiore subconspicuis inferiore conspicuis, nervulis rete pagina utraque prominulum efficientibus, petiolo ad 1.5 cm. longo supra anguste canaliculato suffulta; stipulae fugaces, circa 1.3 cm. longae, extra adpresse ferrugineo-pubescentes. *Flores* axillares, solitarii, albi, odorati (ex *Kerr*); alabastra anguste ovoidea vel oblongo-ovoidea, acuminata, adpresse ferrugineo-pubescentia; pedicelli breves. *Petala* 12, acutiuscula, 2.5 cm. longa, 4 mm. lata, glabra. *Stamina* 6.5 mm. longa, connectivo excurrente apiculata. *Gynophorum* circa 3 mm. longum. *Carpella* breviter pubescentia, stylo 1.25 mm. longo.

Doi Sutep, c. 1650 m., evergreen jungle, *Kerr* 4679.

Canangium fruticosum, *Craib* [Anonaceae-Unoneae]; *C. odorato* (Hook. f. et Thoms.), simile sed habitu humiliore, foliis basi saepissime cuneatis, pedicellis longioribus differt.

Frutex 3–4-metralis (ex *Kerr*); ramuli graciles, juventute densius breviter griseo-pubescentes, mox puberuli, demum glabri, cortice rubro-brunneo vel fusco-brunneo parcius sed conspicue lenticellato reticulato obtecti. *Folia* late lanceolata, oblongo-

lanceolata, vel rarissime elliptica, apice longius acuminata vel fere caudato-acuminata, summo apice acuta, basi cuneata, rarius rotundato-cuneata, ad 13.5 cm. longa et 4.8 cm. lata, chartacea, subtus pallidiora, ad costam nervosque laterales pagina utraque crispatis puberula, nervis lateralibus utrinque 6–8 supra conspicuis subtus prominulis, nervulis inter se sat distantibus subtus subconspicuis, margine integra; petioli graciles ad 1 cm. longi, ut ramuli pubescentes, supra anguste canaliculati. *Flores* ramulis novellis gesti, pedicellis gracilibus usque ad 5 cm. longis densius griseo-puberulis suffulti. *Sepala* 3 (interdum 4), deltoidea, acutiuscula, fere 1 cm. longa, 6 mm. lata, dorso densius griseo- vel fulvo-griseo-puberula, intra medio fere glabra, marginem apicem et basem versus similiter puberula. *Petala* saepissime 6, rarius 8, ad 7 cm. longa et 6 mm. lata, pagina utraque juventute ut sepala puberula, mox sparsius puberula. *Receptaculum* dense breviter pubescens. *Stamina* apiculo puberulo circa 1 mm. longo incluso 2.5 mm. longa. *Carpella* glabra.

Chiengmai, 300 m., cult., *Kerr* 3219. Bangkok, under 5 m., commonly cultivated, *Kerr* 4435.

Lao name, Săbŭn nga kŭa (ex *Kerr*).

Goniothalamus Marcanii, *Craib* [Anonaceae-Mitrephoreae]; *G. tamirensi*, Pierre ex Finet et Gagnep., affinis, sed minus pubescens, foliorum paginae inferioris et ramulorum pilis brevioribus, foliorum nervis lateralibus minus patulis, petalis exterioribus minus angustatis.

Fruticulus circa 2 m. altus (ex *Kerr*); ramuli juventute densius ferrugineo-pubescentes, mox puberuli, demum glabri, cortice fusco-brunneo obtekti, lenticellis sparsis. *Folia* oblonda, apice breviter obtuse acuminata, basi cuneata vel rotundato-cuneata, saepe inaequilateralia, 11–17 cm. longa, 4–5.7 cm. lata, chartacea vel rigide chartacea, supra primo parce pubescentia, cito glabra nisi ad costam saepe puberula, subtus ad costam breviter ferrugineo-pubescentia, aliter demum fere glabra, nervis lateralibus utrinque 9–12 intra marginem anastomosantibus supra conspicuis parumve prominulis subtus prominulis, margine integra, petiolo 7–10 mm. longo ut ramulis ferrugineo-pubescente suffulta. *Flores* solitarii, supra-axillares, viridi-lutei (ex *Kerr*). *Sepala* ovata vel elliptico-ovata, acuminata, acutiuscula, 6 mm. longa, 5.5 mm. lata, dorso sparse ferrugineo-hirsuta, intra glabra, ferrugineo-ciliata. *Petala* exteriora ovata, obtusa, ungui lato circa 3 mm. longo incluso 1.4 cm. longa, 9.5 mm. lata, utrinque sparsius adpresse pubescentia, interiora 1.1 cm. alta, extra adpresse pubescentia, inferne ciliolata. *Receptaculum* longius sed haud dense pubescens. *Stamina* 1.5 mm. longa, apice truncata et puberula. *Carpella* 1.25 mm. alta, ovulis duobus subbasilaribus, stylo 2 mm. longo.

Srirācha, evergreen jungle, *Marcan* 143, *Kerr* 4129.

Goniothalamus desmoides, *Craib* [Anonaceae-Mitrephoreae]; species nova facie *Unonae discoloris*, var. *siamensi*, Scheff., similis,

ovario adpresse pubescente, stylo perbrevis, stigmatibus grandi, ovulo subbasilari solitario distinguenda.

Frutex, ramulis juventute dense plus minusve adpresse ferrugineo-tomentellis. *Folia* oblonga vel oblanceolata-oblonga, apice acuminata, subobtusata, basi rotundata, cuneato-rotundata vel cordatula, ad 15 cm. longa et 5.5 cm. lata, chartacea, supra nisi ad costam ubi pubescentia puberulae matura glabra, juvenilia aliter haud diu albo-pilosa, subtus breviter cupreo-vel rufo-pubescentia, nervis lateralibus utrinque 15–17 supra subconspicuis subtus prominentibus, nervulis subtus conspicuis vel prominulis, margine integra, petiolo 4–5 mm. longo ut ramulis induto suffulta. *Flores* solitarii, conspicue supra-axillares, breviter pedicellati, pallide virides, odorati (ex *Kerr*); bracteola paulo infra calycem sita, late lanceolata, 4 mm. longa. *Sepala* late ovata, obtusata, circa 6 mm. longa, 6 mm. lata, facie utraque adpresse cupreo-pubescentia. *Petala* exteriora anguste oblonga, apice obtusata, 3.4 cm. longa, 1 cm. lata, facie utraque adpresse pubescentia, interiora circa 8 mm. longa, late breviter unguiculata. *Antherae* 1 mm. longae, loculis lateralibus, connectivo apice truncato. *Carpella* adpresse pubescentia, 1 mm. longa, apice constricta; stylus circa 0.5 mm. longus, stigmatibus truncato circa 0.5 mm. lato; ovula solitaria, subbasilaria.

Chiengmai, 300 m., cult., *Kerr* 3312.

Mitrephora Collinsae, *Craib* [Anonaceae-Mitrephoreae]; ab affini *M. Edwardsii*, Pierre, petiolo longiore, cortice fuscior inter alia distinguenda.

Ramuli primo densius fulvo-vel ferrugineo-pubescentes, mox glabri, fulvo-corticati, lenticellis paucis subconspicuis. *Folia* oblonga vel subelliptica, apice breviter acuminata, rarius rotundata, basi cordatula vel fere truncata ad 8.2 cm. longa et 5 cm. lata, subcoriacea, supra ad costam densius molliter pubescentia, demum glabra, subtus primo dense adpresse fulvo-pubescentia, demum ad costam nervosque laterales breviter pubescentia, aliter puberula vel fere glabra, nervis lateralibus utrinque circa 12 supra parum impressis subtus prominentibus, nervulis subtus subconspicuis, margine integra, petiolo 3–4 mm. longo suffulta. *Flores* in speciminibus visis infeliciter manci. *Alabastra* densius adpresse ferrugineo-pubescentia.

S. Siam, *Mrs. D. J. Collins* 507.

Sphaerocoryne clavipes, *Craib*, comb. nov. *S. siamensis*, Scheff. mss. (ex *Boerl.* in Ic. Bogor. t. LXIX.). *Unona Mesnyi*, Pierre, Fl. For. Coch. t. 17 pro parte (1880). *Polyalthia siamensis*, Boerl., l.c. *Popowia Mesnyi*, Craib in Kew Bull. 1914 p. 5. *P. aberrans*, Pierre ex Finet et Gagnep. in Bull. Soc. Bot. Fr., Mém. 4 p. 109 et in Fl. Gén. Indo-Chine I. p. 83, vix *Polyalthia aberrans*, Maingay. *Melodorum clavipes*, Hance in Journ. Bot. 1877 p. 328.

Sriracha, *Mrs. D. J. Collins* 6, *Marcan* 189. Bangkok Palace Gardens, *Murton* 30. Chiangmai, 300 m., cult. *Kerr* 3525.

Distr. Cambodia, Cochinchina, Java (cult.), [Laos ex Fl. Gén. Indo-Chine].

To this genus also belongs *Popowia diospyrifolia*, Pierre ex Finet et Gagnep. (= *S. diospyrifolia*, comb. nov.).

Melodorum affine, *Craib* [Anonaceae-Xylopieae]; ab affini *M. oblongo*, *Craib*, pedicellis fructiferis brevioribus, foliis tenuioribus, nervis lateralibus supra haud impressis recedit.

Ramuli volubiles, primo ferrugineo-tomentelli, mox glabri, brunneo- vel fusco-brunneo-corticati, lenticellis subconspicuis. *Folia* oblonga vel cuneato-oblonga, apice rotundata, obtusa, vel interdum breviter acuminata, basi cuneata vel cuneato-rotundata, usque ad 18.5 cm. longa et 6.2 cm. lata, rigide chartacea, supra ad costam tomentella, subtus pallidiora, tomentella praeterea ad costam nervosque pilis longioribus instructa, nervis lateralibus utrinque 15–18 supra saepissime subconspicuis subtus prominentibus, costa supra impressa; petioli 7–10 mm. longi, sat crassi, supra canaliculati. *Pedicelli* fructiferi terminales, 1 cm. longi, bracteolis persistentibus. *Receptaculum* parum incrassatum. *Carpella* (an omnino matura?) ellipsoideo-orbicularia, 1.8 cm. longa, stipite 2.5 cm. longo suffulta, dense ferrugineo-tomentella.

Doi Sutep, 660 m., mixed jungle, *Kerr* 3259.

Alphonsea lutea, *Hook. f. et Thoms*, var. **longipes**, *Craib* [Anonaceae-Miliuseae]; varietas pedicellis elongatis distincta.

Arbor sempervirens, 50-pedalis, trunco cortice laevi griseo oblecto (ex *Vanpruk*); ramuli primo breviter adpresse fulvo-pubescentes, mox glabri, cortice cinereo reticulato oblecti. *Folia* oblongo-lanceolata, apice subacuminata, basi cuneata vel rotundato-cuneata, ad 14.5 cm. longa et 4 cm. lata, rigide chartacea, supra ad costam primo breviter pubescentia, mox puberula, subtus matura glabra vel subglabra, nervis lateralibus utrinque ad 10 pagina utraque conspicuis sed vix prominulis, nervulis rete gracile efficientibus, petiolo circa 4 mm. longo suffulta. *Flores* in fasciculis e ramulis annotinis ortis dispositi, pedicellis 2 cm. longitudine fere attingentibus infra medium bracteolatis ut alabastris adpresse fulvo-pubescentibus.

Prê, Mê Song, 360 m., *Vanpruk* 444.

This plant, treated here as a variety, in all probability represents quite a valid species. Receipt of more adequate material, both flowering and fruiting, is required for certainty.

Capparis auricans, *Craib*, comb. nov. *C. grandis*, Linn. f., var. *auricans*, Kurz, For. Fl. Br. Burma, vol. I., p. 64.

Mê Chang, deciduous jungle, 300 m., *Kerr* 3177.

Distr. Burma, *Smales*. Frequent in Prome district (fide Kurz, l.c.).

Capparis mekongensis, Gagnep., var. **crispata**, Craib [Cappariaceae-Cappareae]; varietas nova foliis angustioribus apice mucronatis brevius petiolatis, maturis pagina superiore medio et ibi praesertim ad costam breviter crispatis pubescentibus cognoscenda.

Muang Sa, Nan, 180 m., dry mixed jungle, evergreen tree c. 9 m. high, *Kerr* 2396.

C. mekongensis is known to the writer from description only. *Kerr's* plant which differs mainly in the points noted has had to be treated therefore in the meantime as a variety. A very similar plant was collected at Lampun (*Winit* 99), but the specimens forwarded consist of young flower-bearing twigs only. The collector further expresses a doubt as to whether the plant is deciduous or not.

Euonymus auriculatus, Craib [Celastraceae-Celastreae]; species nova fructibus echinatis foliis basi cordatis breviter petiolatis distincta.

Arbor sempervirens, circa 10-metralis (ex *Kerr*), ramulis glabris pallide viridibus angulatis, internodiis inferioribus elongatis superioribus brevibus. *Folia* opposita vel subopposita, oblanceolata, apice acuminata, summo apice mucronata, basi auriculato-cordata, ad 19 cm. longa et 5.4 cm. lata, subcoriacea, pagina utraque viridia sed inferiore pallidiora, glabra, nervis lateralibus utrinque 13-16 pagina utraque prominulis, nervis transversis subprominulis, margine integra, petiolo ad 6 mm. longo sat crasso fuscescente supra dense puberulo suffulta. *Pedicelli* ad apices ramulorum novellorum gesti, solitarii, axillares, 2-4 cm. longi, longitudinaliter breviter pubescentes. *Fructus* juvenilis dense echinatus, stylo trifido saepissime coronatus, basi calyce persistente ornatus; calycis segmenta reflexa, circa 5 mm. longa, acuminata, nervosa, intra ima basi puberula.

Mê Ta, 300 m., *Kerr* 3620.

Crotalaria Kerrii, Craib [Leguminosae-Genisteae]; ab affini *C. Stocksii*, Hook. f., foliis haud punctatis distinguenda.

Herba basi lignosa, ad 25 cm. alta, copiose graciliter ramosa, caule ramulisque breviter pubescentibus. *Folia* lanceolata, oblongo-lanceolata vel elliptico-oblonga, apice apiculata, rarius acutiuscula, basi cuneata, ad 3.3 cm. longa et 1.3 cm. lata, chartacea, pagina utraque pilis tenuibus albis plus minusve adpressis instructa, subtus parum pallidiora, nervis lateralibus utrinque 5-7 supra vix conspicuis subtus prominulis, costa supra impressa subtus prominente, nervulis haud conspicuis, margine integra; petioli circa 1 mm. longi; stipulae deciduae, foliaceae, dimidio-ovatae, acutae, 2 mm. longae, 1 mm. latae, indumento foliorum instructae, saepe divergentes. *Pedunculi* communes axillares, graciles, saepissime 2-flori, 2 cm. longitudine fere attingentes, pedicellis circa 4 mm. longis, pedunculis pedicellisque pilis iis caulium similibus instructis, bracteolis filiformibus 1.5 mm. longis paulo infra calycem positae persistentibus; flores lutei (ex *Kerr*). *Calyx* extra pubescens, postice 4 mm., antice

fere 5 mm. longus; lobi ciliati, acuti, postici 2.5 mm. longi, 0.75 mm. lati, lobo antico 3.5 mm. longo. *Vexillum* 4.5 mm. longum ungui brevi lato ciliato incluso, basi bicallosum, marginibus basi poculiformibus; alae 4 mm. longae, 1.3 mm. latae, vix unguiculatae; carina 3.5 mm. longa, apice 4.25 mm. lata, ungui 0.5 mm. longo. *Ovarium* glabrum, 2.5 mm. altum, stylo 4.25 mm. longo glabro. *Legumen* circa 1.5 cm. longum, styli parte basali persistente apiculatum, basi in stipitem circa 2 mm. longum angustatum; semina sat numerosa, 1.5 mm. longa, viridi-straminea, mox brunnescentia, nitida.

Near Prê, Mê Ta, dry bamboo jungle, 240 m., *Kerr* 2352.

Indigofera changensis, *Craib* [Leguminosae-Galegeae]; ab *I. squalida*, Prain, cui habitu persimilis, squamis paucioribus, pilis et caulium et foliorum costae pagina inferiore divergentibus haud arete adpressis distinguenda.

Caules ad 24 cm. alti, pallidi, pilis albis brevibus divergentibus instructi, sulcati. *Folia* simplicia, oblanceolata vel oblongo-oblanceolata, apice rotundata, rarius breviter acuminata, costa excurrente apiculata, basi cuneata, ad 5.7 cm. longa et 1.5 cm. vel rarius 2.2 cm. lata, sat rigida, supra pilis brevibus medifixis aspera, subtus pallidiora, pilis iisdem sed ad costam plus minusve divergentibus praetereaue squamis paucis instructa, nervis lateralibus utrinque circa 8 subtus subprominulis, margine integra, petiolo 2 mm. longo suffulta; stipulae persistentes, subulatae, 4 mm. longae. *Racemi* axillares, pedunculo communi incluso circa 8 mm. longi, bracteis angustis alabastris subaequilongis, alabastris extra dense albo-hirsutis, pedicellis brevibus. *Calyx* 2.5 mm. longus, lobis posticis aliis paulo latioribus et brevioribus, omnibus acutis, posticis lanceolatis, aliis lineari-lanceolatis. *Vexillum* ovato-rhomboideum, 4.5 mm. longum, 2 mm. latum. *Ovarium* 1.75 mm. altum, adpresse pubescens.

Mê Chang, deciduous jungle, 300 m., *Kerr* 3607.

Desmodium rufihirsutum, *Craib* [Leguminosae-Hedysareae]; a *D. lasiocarpo*, DC., cui affinis, bracteis elongatis recedit.

Caules circa 4-pedales, pilis rufis divergentibus sat rigidis copiose instructi, cortice brunneo striato obtecti. *Folia* simplicia, ovato-elliptica vel elliptica, apice acuminata, acuta, basi rotundata, ad 16 cm. longa et 9.5 cm. lata, rigide chartacea, supra pilis albis basi tuberculatis sat rigidis hirsuta, subtus pubescentia, nervis lateralibus utrinque 5-7 supra conspicuis subtus prominentibus, margine integra, interdum undulata, densius ciliata, petiolo ad 8 mm. longo dense rufo-pubescente suffulta; stipulae e basi 3-5 mm. lata subulatae, 8 mm. longae. *Racemi* in axillis foliorum inferiorum solitarii, superiorum plures, praetereaue in paniculam fere efoliatam terminalem dispositi, ad 10 cm. longi, breviter pedunculati, densiflori; bractee alabastra longe superantes, subulatae, circa 1 cm. longae, pilis albis divergentibus sat copiose instructae; pedicelli 2 mm. longi. *Calyx* tubus circa 1 mm. longus; lobi duo postici in unum deltoideum apice breviter bilobum 1 mm. longum connati, laterales antico paululo

longiores, antico 1.5 mm. longo angusto. *Vexillum* obovatum, 5 mm. longum, vix unguiculatum; alae 3.5 mm. longae, ungui 1 mm. longo excluso; carina 4.5 mm. longa. *Ovarium* 3.5 mm. altum, adpresse pubescens, stylo 2.5 mm. longo.

Doi Sutep, mixed jungle on edge of old clearing, flowers mauve, 660 m., *Kerr* 2763.

Distr. Burma.

***Itea puberula*, Craib** [Saxifragaceae-Escallonieae]; *I. macrophyllae*, Wall., affinis, sed foliorum pagina inferiore et racemis puberulis, foliis basi cuneatis vel late cuneatis distinguenda.

Arbor (ex *Kerr*), ramulis juventute puberulis viridibus mox fusciscentibus glabrescentibus. *Folia* oblanceolato-oblonga vel elliptico-oblonga, apice acuminata, acuta, basi cuneata vel late cuneata, usque ad 32 cm. longa et 11 cm. lata, chartacea, pagina utraque ad costam nervosque laterales puberula, subtus pallidiora, nervis lateralibus utrinque ad 15 supra conspicuis subtus prominentibus, nervulis inter se parallelis sat approximatis pagina utraque conspicuis, margine basem versus integra vel subintegra, apicem versus serrulata vel denticulata, petiolo ad 3 cm. longo supra canaliculato suffulta. *Racemi* solitarii, gemini, vel tres, rarius quatuor in foliorum axillis positi, pedunculo communi brevi incluso circa 20 cm. longi, rhachi pedicellis et alabastris puberulis; pedicelli 2–2.5 mm. longi; flores albi (ex *Kerr*). *Sepala* deltoideo-lanceolata, acuta, circa 1 mm. longa, erecta vel mox incurva. *Petala* recurva, lineari-lanceolata, acuta, 2.5 mm. longa, 0.75 mm. lata. *Filamenta* 1.25 mm. longa, glabra. *Stylus* circa 1.5 mm. longus, superne gradatim angustatus, glaber, stigmatibus capitato.

Doi Sutep, 1350 m., evergreen jungle, *Kerr* 2000.

***Ehretia Winitii*, Craib** [Boraginaceae-Ehretieae]; ab affini *E. aspera* Roxb., ramulis foliisque haud dense aspero-pubescentibus recedit.

Fruticulus 1–3-pedalis (ex *Winit*), ramulis cito glabris cortice cinereo vel brunneo-cinereo obtectis. *Folia* obovata vel elliptico-obovata, apice rotundata, basi cuneata, ad 5.2 cm. longa et 2.2 cm. lata, sat rigida, supra pilis basi tuberculatis hic et illic instructa, scabrida, subtus pallidiora, parce pubescentia, nervis lateralibus utrinque circa 6 intra marginem anastomosantibus supra vix conspicuis subtus prominentibus, margine integra, petiolo circa 3 mm. longo suffulta. *Inflorescentia* terminalis, circa 2 cm. diametro, pedunculo communi 1.5 cm. longo suffulta. *Calyx* sicco fuscus, fere ad basem in segmenta 5 lanceolata acuta basi 0.75 mm. lata dorso parce pubescentia ciliolata partitus. *Corolla* azurea, demum alba (ex *Winit*); tubus 4 mm. longus; lobi oblongi, 3 mm. longi, 1.75 mm. lati. *Filamenta* paulo infra corollae tubi apicem inserta, 3 mm. longa, glabra; antherae oblongae, 1.5 mm. longae, dorsifixae. *Ovarium* in calyce bene inclusum, stylo 4.5 mm. longo apice breviter 2-ramoso.

Kanburi, near swamp in open jungle, 18 m., *Winit* 532.

Siamese name. Chan Nam.

Chirita tubulosa, *Craib* [Gesneraceae-Cyrtandreae] a *C. barbata*, Sprague, partibus omnibus pallidioribus brevius et sparsius pilosis, foliis basi rotundatis vel subcordatis haud cuneatis, calyce tubuloso lobis lanceolatis erectis, corolla minore, lobo infimo pro rata longiore, antheris multo brevius barbatis, inter alia distinguenda.

Caulis sat crassus, **viridis**, pilis divergentibus sparse instructus. *Folia* oblonga, basi **rotundata** vel subcordata, ad 19 cm. longa et 6 cm. lata, supra **viridia**, pilis breviusculis subadpressis sat rigidis instructa, mox plus minusve glabrescentia, subtus pallidiora, pilis similibus instructa, nervis lateralibus utrinque circa 20 supra conspicuis subtus prominentibus, margine integra, distincte sed breviter petiolata. *Inflorescentia* ei *C. barbatae* similis, pedicellis ad 15 mm. longis. *Calyx* viridis, distincte nervosus, tubo circa 6 mm. longo, lobis lanceolatis acutis haud reflexis circa 4 mm. longis extra pilis subrigidis sparse instructus. *Corolla* e calyce 3 cm. exserta extra alba, pilis erectis instructa, intra alba nisi e basi lobi infimi luteo-lineata (ut in *C. barbata*) praetereaque e staminum insertionem latere utroque linea purpurea multo angustiore brevioraque ornata, lobo infimo 1 cm. longo et lato, lobis lateralibus circa 5 mm. longis quam posticis paulo longioribus. *Stamina* iis *C. barbatae* similia nisi antheris pallidis brevius barbatis et filamentis ad angulos macula atro-purpurea instructis. *Ovarium* viride, ima basi glabrum, superne sparse pubescens, 1 cm. longum, stylo circa 15 mm. longo breviter pubescente albo, stigmate bifido.

Described from living plants grown from seed collected by Dr. A. F. G. Kerr. The plants flowered in October of last year.

Radermachera Pagetii, *Craib* [Bignoniaceae-Tecomeae]; a speciebus aliis calyce tuberculato recedit.

Arbor 30–60-pedalis (ex *Paget* et *Marcen*); ramuli florigeri sat crassi, primo sicco fusci, dein cortice cinereo obtecti, sparse lenticellati, foliorum cicatricibus ellipticis vel late ellipticis parum elevatis copiose notati. *Folia* pinnata, ad 17 cm. longa petiolo 4–5·7 cm. longo excluso; foliola oblongo-lanceolata vel ovato-lanceolata, apice acuminata, acuta obtusave, basi inaequilateralia, saepissime rotundata, ad 6·5 cm. longa et 2·2 cm. lata, chartacea, glabra, subtus parum pallidiora, nervis lateralibus utrinque 7–8 subtus fere prominulis, margine integra, petiolulo circa 5 mm. longo suffulta. *Thyrsi* terminales, breviter pedunculati; pedunculi partiales verticillati, 1–1·5 cm. longi; pedicelli circa 1·5 cm. longi, infra medium bracteolati, bracteolis parvis angustis, et barbati, aliter praesertim superne sparse pilosi. *Calyx* 1·5–1·7 cm. longus, praesertim inferne dense tuberculatus. *Corolla*, lobis inclusis, 6 cm. longa, alba vel pallide lilacina (ex *Marcen*), tubo infra staminum insertionem intra pubescente. *Filamenta* 1 cm. supra corollae tubi basem inserta, circa 1·5 cm. longa, antherarum loculis divaricatis 3 mm. longis. *Ovarium* circa 1 cm. altum, stylo 2·5 cm. longo. *Fructus* 14 cm. longus, fuscus, densius tuberculatus; semina,

ala inclusa, 3.5 cm. longa.—*Radermachera* sp.n., Craib, Contrib Fl. Siam, p. 151.

Bangkok, Legation Garden, *Paget*. Bangkok, cult., *Marcan* 617. Petchabouri, thicket, 50 m., *Marcan* 621 (almost certainly wild).

Siamese name, Kaa kow (ex *Marcan*).

Cinnamomum (Camphora) siamense, *Craib* [Lauraceae-Perseae] a speciebus indicis hujus gregis ramulis gracilibus, foliis minoribus subtus glabris haud glaucis distinctum.

Arbor ramulis gracilibus glabris primo pallide brunneis mox fusco-brunneis pauci-lenticellatis. *Folia* oblongo-elliptica, rarius lanceolata ovatave, apice angustata vel subacuminata, mucronulata, basi cuneata, saepe inaequilateralis, ad 11 cm. longa et 4.5 cm. lata, coriacea vel chartaceo-coriacea, glabra, subtus parum pallidiora, nervis lateralibus utrinque 4-6 supra conspicuis subtus prominentibus intra marginem anastomosantibus, duobus infimis intramarginalibus, nervulis rete gracile subtus prominulum efficientibus, margine integra, petiolo circa 1 cm. longo supra canaliculato suffulta. *Flores* ignoti. *Fructus* immaturus; receptaculum incrassatum, elongato-turbinatum, 1.6 cm. longum, apice 7 mm. diametro, perianthii segmentis delapsis.

N. Siam, *Kerr* 2511.

XXVII.—MISCELLANEOUS NOTES.

RETIREMENT OF MR. W. WATSON.—On June 24th Mr. W. WATSON, A.L.S., who has been Curator of the Royal Botanic Gardens, Kew, since August 1st, 1901, retired under the age limit. Mr. Watson entered Kew as Foreman in 1879 and was appointed Assistant Curator in 1886. He is succeeded by Mr. W. J. BEAN, who has been Assistant Curator since February 7th, 1900, having entered Kew in 1883 as a young gardener. The post vacated by Mr. Bean is not being filled, but the five Foremen, Messrs. W. IRVING, C. P. RAFFILL, A. OSBORN, W. TAYLOR and J. COUTTS, have been given the rank of Assistant Curators.

MR. ARCHIBALD T. BROOKS, Agricultural Superintendent, St. Lucia (*K.B.*, 1903, 30), has been appointed by the Secretary of State for the Colonies, on the recommendation of Kew, Director of Agriculture in the Gambia.

Presentation of the Forrest Collection.—The important and valuable collections made by Mr. George Forrest during the period 1916-1919, when he was engaged on his botanical explorations in N.W. Yunnan and S.E. Tibet—chiefly on the ranges which divide the three great rivers, the Yangtze-kiang, the Mekong and the Salween, draining those regions—have been very generously presented to the Royal Botanic Gardens, Kew, by the Syndicate under whose auspices Mr. Forrest carried out his explorations. Out of the 6000 numbers collected during