

Contribution to our knowledge of Ascomycetes of India XXV—Hysteriales

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(With three figures)

In the earlier papers (1960—68) 94 ascomycetes have been described from India. The present paper deals with the description of three species of the Order Hysteriales namely *Hysteropsis zoggii* sp. nov., on *Ulex europaeus* Linn., *Hysterographium awaradii* sp. nov. on *Tamarindus indica* L. and *Mytilidion kamatii* sp. nov. on *Vitex negundo*. These collections have been described as new to science of the basis of comparative morphological studies and host relationship. The first two species belong to the family Hysteriaceae and the last to the family Lophiaceae.

95. *Hysteropsis zoggii* sp. nov.

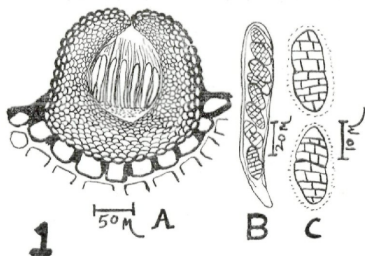
Hysterothecia singly or scattered in small groups, black, erumpent, superficial, firmly attached on the bark or decorticated wood, elongated, boat-shaped, slightly shining, 1—2 mm long; opening by a longitudinal slit at the upper edge. Hysterothecia in v. s. 300—345 μ broad, 225—270 μ high, outer wall dark brown to black and thick; the wall of hypothecium tapering towards the mouth; hymenium flat. Asci cylindric al to clavate, stalked, bitunicate, 8-spored, measuring from 95—122 $\times$ 15—19 μ , paraphysate; paraphyses filiform, transversely septate, branched, longer than asci. Ascospores hyaline, ellipsoid to fusoid, muriform, constricted in the middle, biseriata, with 8—12 transverse and 9—15 longitudinal septa, forming parenchymatous-like structure, measuring from 24—28.5 $\times$ 5—7 μ , with mucous sheath.

The species has been named after Dr. Zogg for his valuable contributions to the families Hysteriaceae and Lophiaceae.

Hysterothecia solitaria vel greges minutos dispersos formantia, superficialia, matrici arte adnata, ambitu cymbaeformia, nitidula, 1—2 mm longa, rima dorsali longitudinali aperta, 300—345 μ lata, 225—270 μ crassa; pariete crassiusculo, obscure brunneo; asci cylindracei vel clavati, stipitati, crassiuscule tunicati, 8-sporei, 95—122 $\times$ 15—19 μ ; sporae distichae ellipsoideae vel fusoideae, hyalinae, transverse 8—12-longitudinaliter 9—15-septatae, medio leniter constrictae, 24—28.5 $\times$ 5—7 μ ,

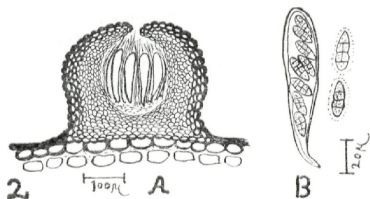
muco obvolutae; paraphyses filiformes, septatae, ramulosae, ascos superantes.

Collected on dead stem of *Ulex europaeus* Linn. at Kodai Kanal in the month of November 1964. Leg. S. B. Kale and deposited in the herbarium of I. A. R. I. New Delhi under Acc. No. 29428.



96. *Hysterographium awaradii* sp. nov.

Hysterothecia singly or in small groups, on bark, boat-shaped, smooth, black, elongated, firmly attached, 1—1.5 mm long, opening by a longitudinal slit at the upper edge; opening slightly wider. Hysterothecia in v.s. 500—700 μ broad, 400—600 μ tall. The wall of hysterothecium is

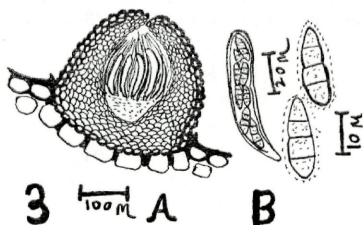


made up of dark brown to black, thick-walled cells; hymenium flat, light-coloured. Asci clavate, short-stalked, bitunicate, 8-spored, 92—120 $\times$ 10—15 μ , paraphysate; paraphyses filiform, branched at the tips and longer than the asci. Ascospores ellipsoid to fusoid, irregularly biseriate, brown to dark brown, muriform, constricted in the middle, with 3—7 transverse and 1—3 longitudinal septa, with thin delicate mucous sheath, measuring from 17—22 $\times$ 7—8 μ .

Hysterothecia solitaria vel greges minutos formantia, cymbaeformia, atra, arte adnata 1—1.5 mm longa, 500—700 μ lata, 400—600 μ crassa, rima longitudinali aperta; pariete pseudoparenchymatico, e cellulis

atro-brunneis, crassiuscule tunicatis composito; asci clavati, breviter stipitati, crassiuscule tunicati, 8-spore, $92-120 \times 10-15 \mu$; sporae irregulariter distichae, ellipsoideae vel fusoideae, brunneae vel obscurae brunneae, transverse 3-7-longitudinaliter 1-3-septatae, $17-22 \times 7-8 \mu$; muco tenui obvolutae; paraphyses filiformes, superne ramulosae, ascos superantes.

Collected on dead bark of *Tamarindus indica* L. at awarad in the month of December 1967 Leg. S. B. K a l e and deposited in the herbarium of I. A. R. I. New Delhi under Acc. No. 29429.



97. *Mytilidion kamatii* sp. nov.

Hysterothecia black, shining, smooth, singly or scattered in small groups on decorticated wood, shnell-shaped, 1-1.5 mm long, opening by a very narrow longitudinal slit along with the upper edge, taller than broad; hysterothecia in v. s. 225-300 μ high, 180-225 μ broad; the outer wall dark, thick-walled, many celled in thickness, tapering towards the opening forming the lip-like structure; hymenium flat. Asci cylindrical to clavate, stalked, 8-spored, bitunicate, $72-80 \times 9-12 \mu$, paraphysate; paraphyses filiform, longer than the asci. Ascospores dull brown, ellipsoid to cylindrical, biseriate to sub-biseriate, initially hyaline, later becoming dull brown, wall and septa dark brown, transversely 3-septate, slightly constricted at the middle septum, tapering at one end, straight, $19-22 \times 5-8 \mu$, with thin delicate mucous sheath.

The species has been named after Prof. M. N. K a m a t for his valuable contribution to the knowledge of Indian Fungi.

Hysterothecia solitaria vel greges minutos formantia, atra, nitidula, levia, cymbaeformia, 1-1.5 mm longa, rima dorsali angusta longitudinali aperta, 225-300 μ crassa, 180-225 μ lata; pariete pluristratoso, pseudoparenchymatico, atro-brunneo; asci cylindraceo-clavati, breviter stipitati, crassiuscule tunicati, 8-spore, $72-80 \times 9-12 \mu$; sporae incomplete distichae, oblongae vel ellipsoideae, utrinque leniter attenuatae, primo hyalinae, postea brunneae, 3-septatae, medio tantum leniter constrictae, rectae, $19-22 \times 5-8 \mu$, muco tenuissimo obvolutae, paraphyses filiformes, ascos superantes.

Collected on dead and decorticated stem of *Vitx negundo* L. at Awarad in the month of December 1967 Leg. S. B. Kale and deposited in the herbarium of I. A. R. I. New Delhi under Acc. No. 29431 B.

The three genera constitute new generic records to India.

A c k n o w l e d g e m e n t s

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L i t e r a t u r e c i t e d

Zogg, H. 1962. Die Hysteriaceae S. Str. and Lophiaceae. Beitr. Krypt.fl. Schweiz. 11 (3) 1—199.

E x p l a n a t i o n o f F i g u r e s

Fig. 1. *Hysteropsis zoggii* sp. nov. — A. v. s. of hysterothecium. B. Ascus. C. Ascospores. Fig. 2. *Hysterographium awaradii* sp. nov. — A. v. s. of hysterothecium. B. Ascus and ascospores. Fig. 3. *Mytilidion kamatii* sp. nov. — A. v. s. of hysterothecium. B. Ascus and ascospores.

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