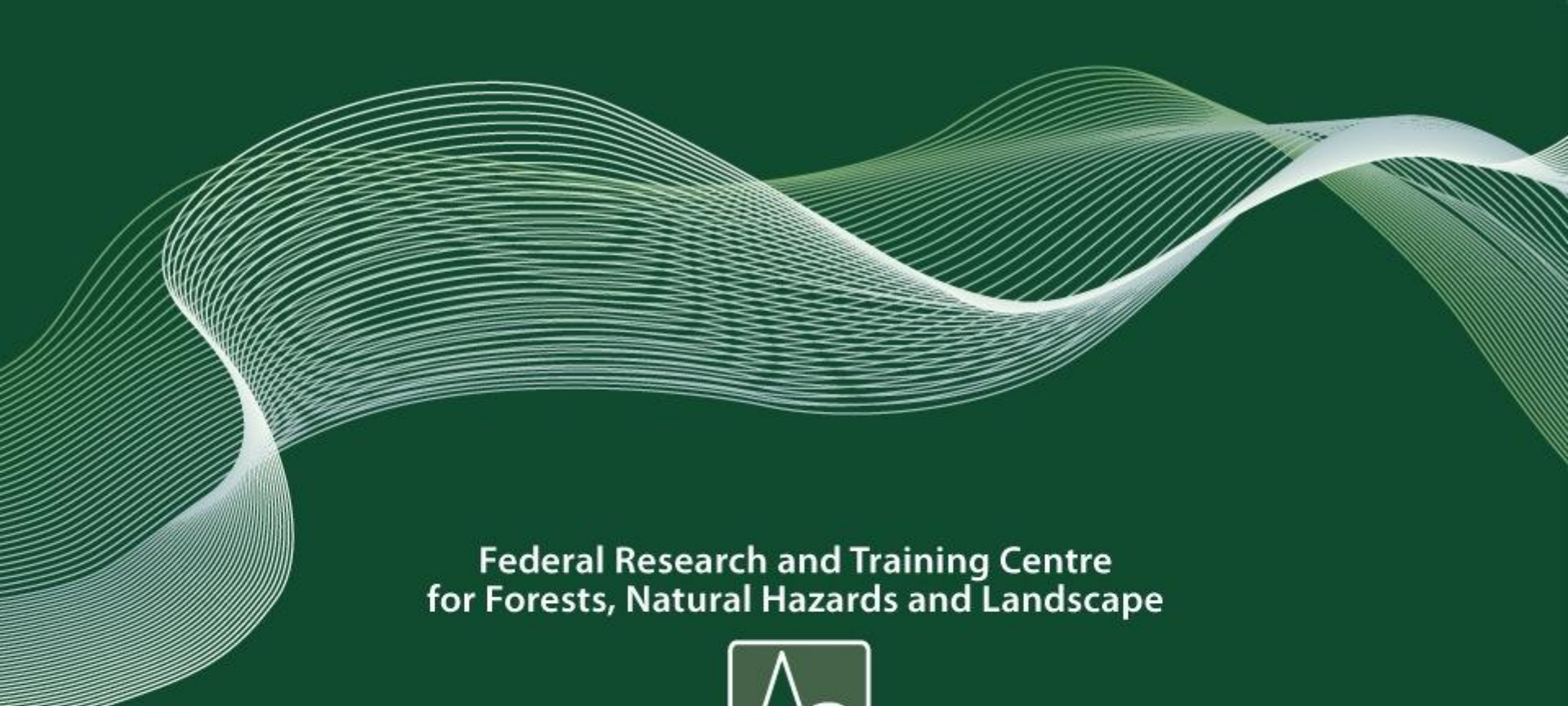


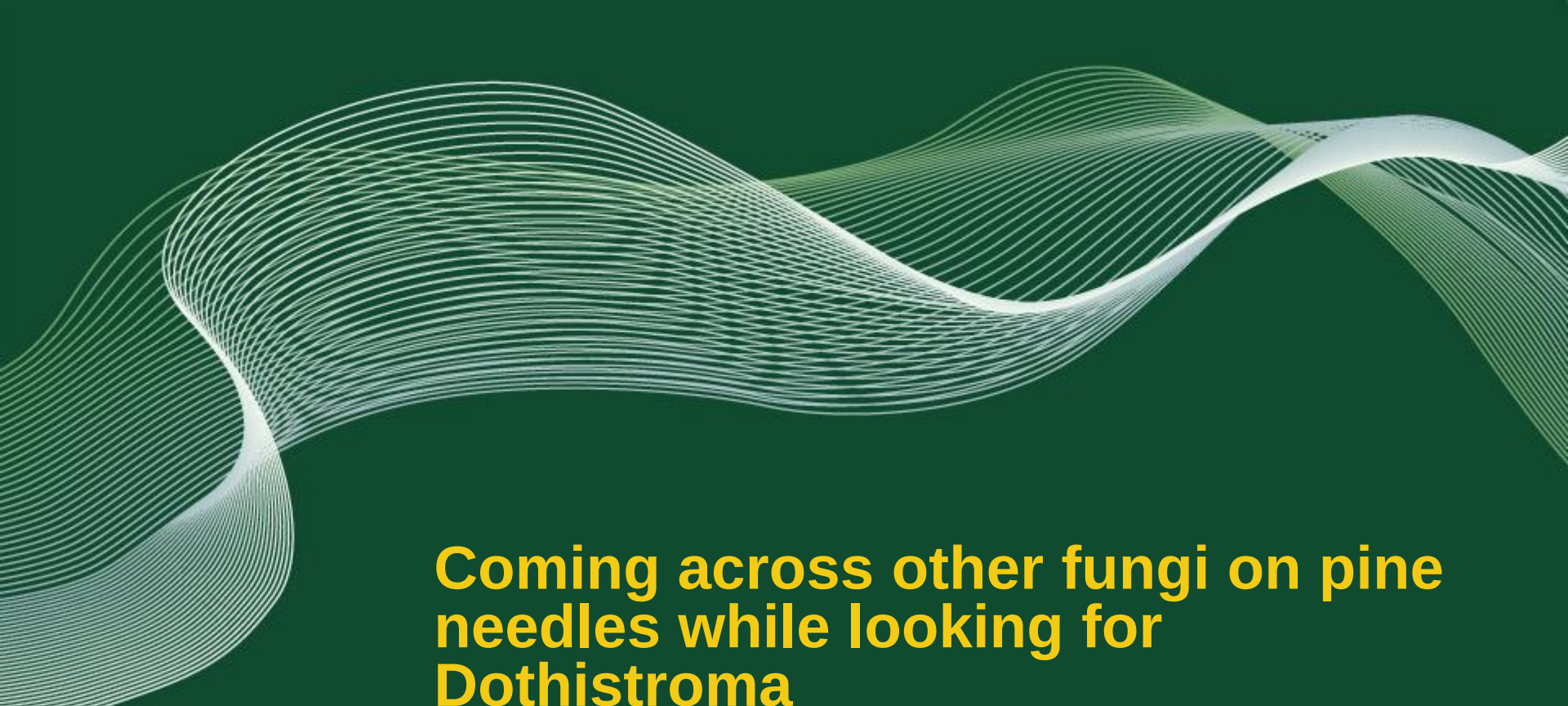


**Federal Research and Training Centre
for Forests, Natural Hazards and Landscape**



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Research - Monitoring - Training



Coming across other fungi on pine needles while looking for Dothistroma

Th.L.Cech

Department of Forest Protection

COST – Dothistroma-training workshop
Brno, Czech Republic

21.5.-24.5.2012

Species presented

Anthostomella spp.

Cenangium acuum

Coleosporium spp.

Cyclaneusma sp.

Diplodia pinea

Epicoccum nigrum

Gremmeniella abietina

Hendersonia acicola

Lophodermella sulcigena

Lophodermella conjuncta

Lophodermium pinastri

Lophodermium seditiosum

Phacidium infestans

Phacidium lacerum

Sclerophoma pithyophila

Thyriopsis halepensis

Zythiostroma pinastri

These species, with one exception,
are commonly found on needles
of various pine species in
Central European countries



Anthostomella conorum (Fuckel) Sacc. and other species

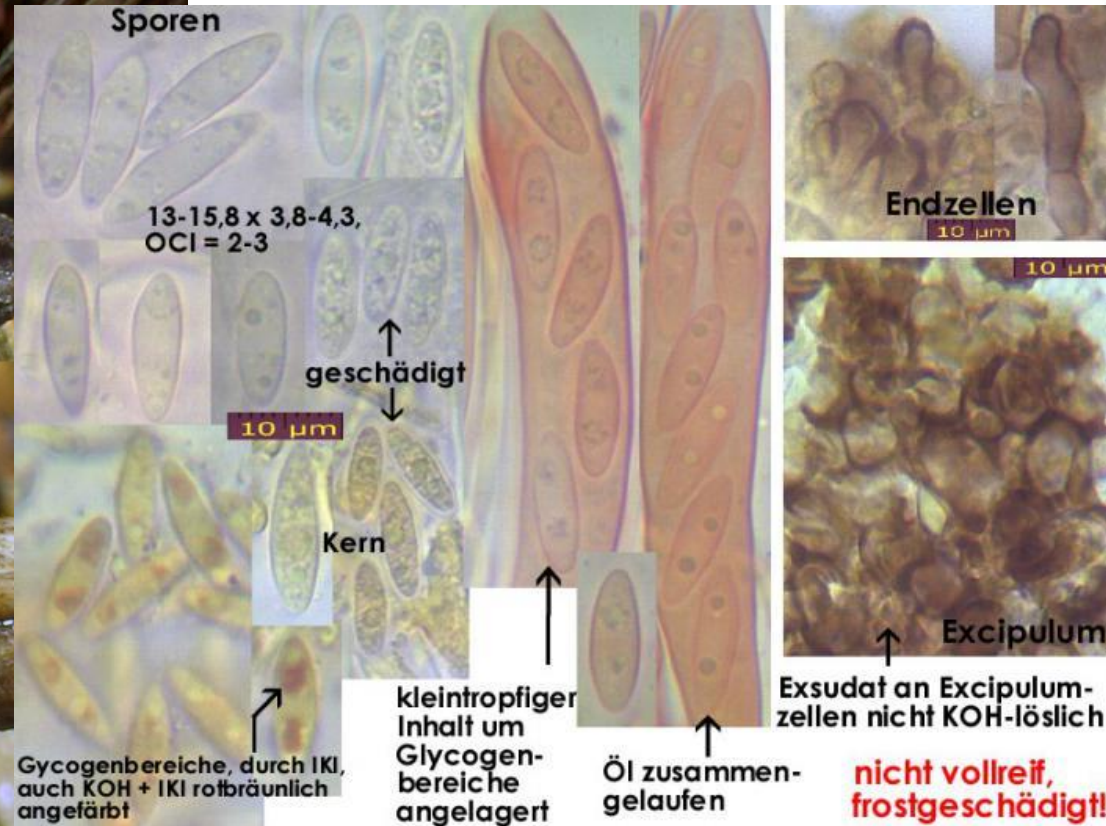


Reference.

Lu B., Hyde KD., 2000.: A world monograph of *Anthostomella*.
Fungal Diversity Research Series 4:
1–376.

Foto: Pedro W. Crous & Johannes Z. Groenewald,
CBS-KNAW Fungal Biodiversity Centre, Utrecht, The Netherlands

Cenangium acuum Cooke and Peck

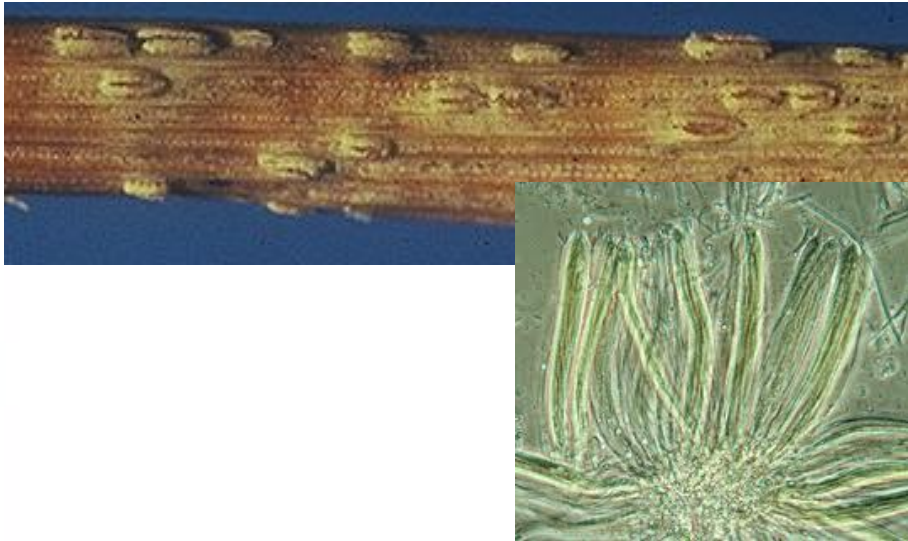


Fotos: <http://asco-sonneberg.de/pages> Ingo Wagner, Sonneberg, BRD

***Coleosporium* *spp.*, pine needle rusts**

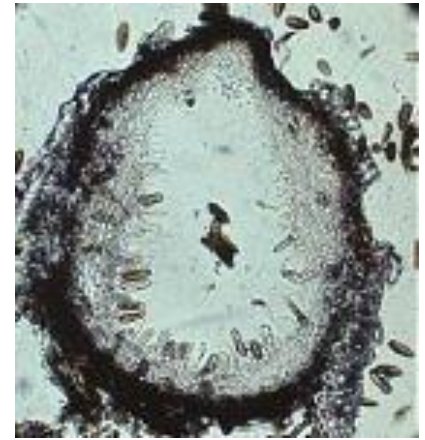
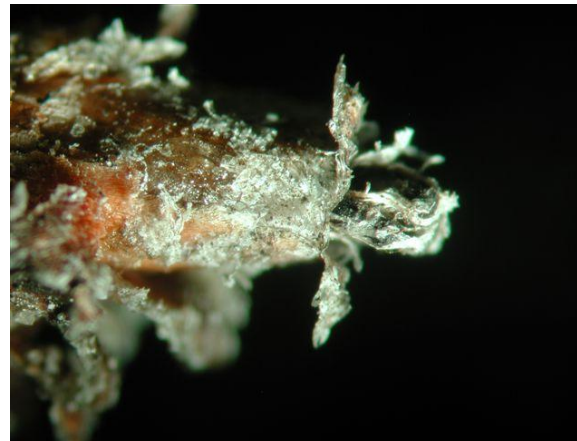


***Cyclaneusma
minus* (Butin)
DiCosmo, Peredo
& Minter ,
Cyclaneusma
needle cast**

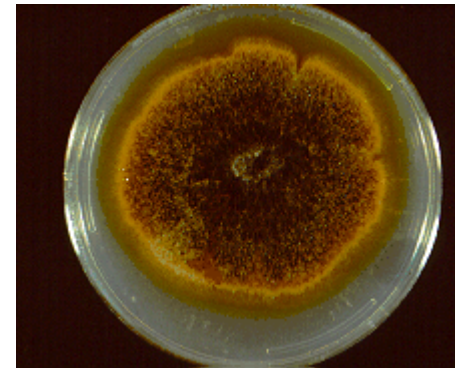
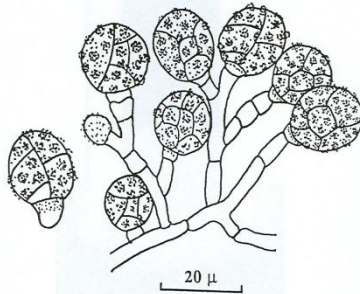
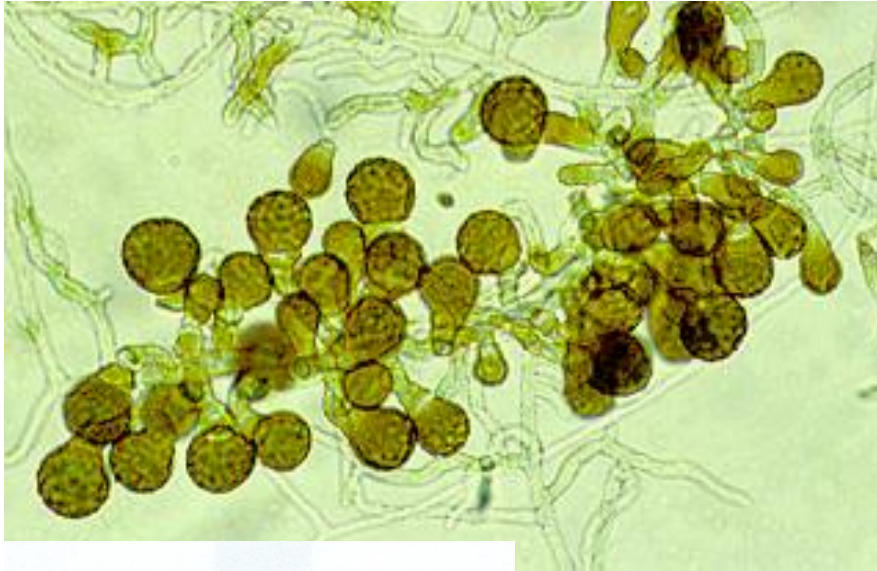


Fotos: <http://www.plantpath.cornell.edu/Trees/CyclnNcst.html> Christmas Tree IPM Pest web page, Cornell Univ.;
© Copyright Malcolm Storey 2011-2112 *Cyclaneusma minus* – Asc i

Diplodia pinea (Desm.) J. Kickx

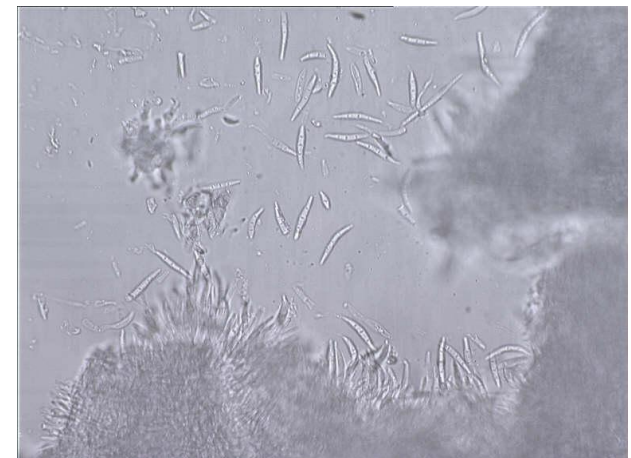
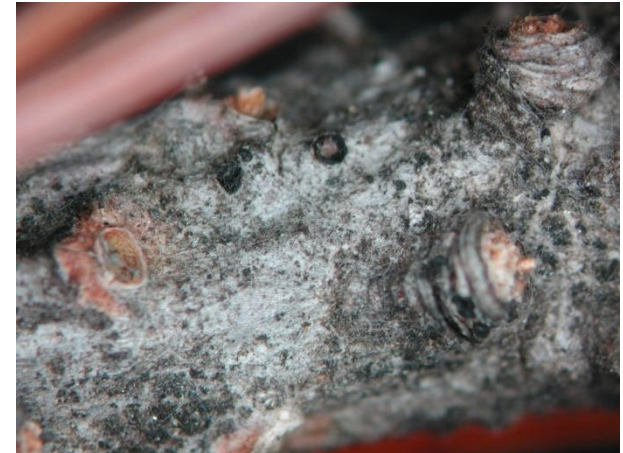


Epicoccum nigrum Link

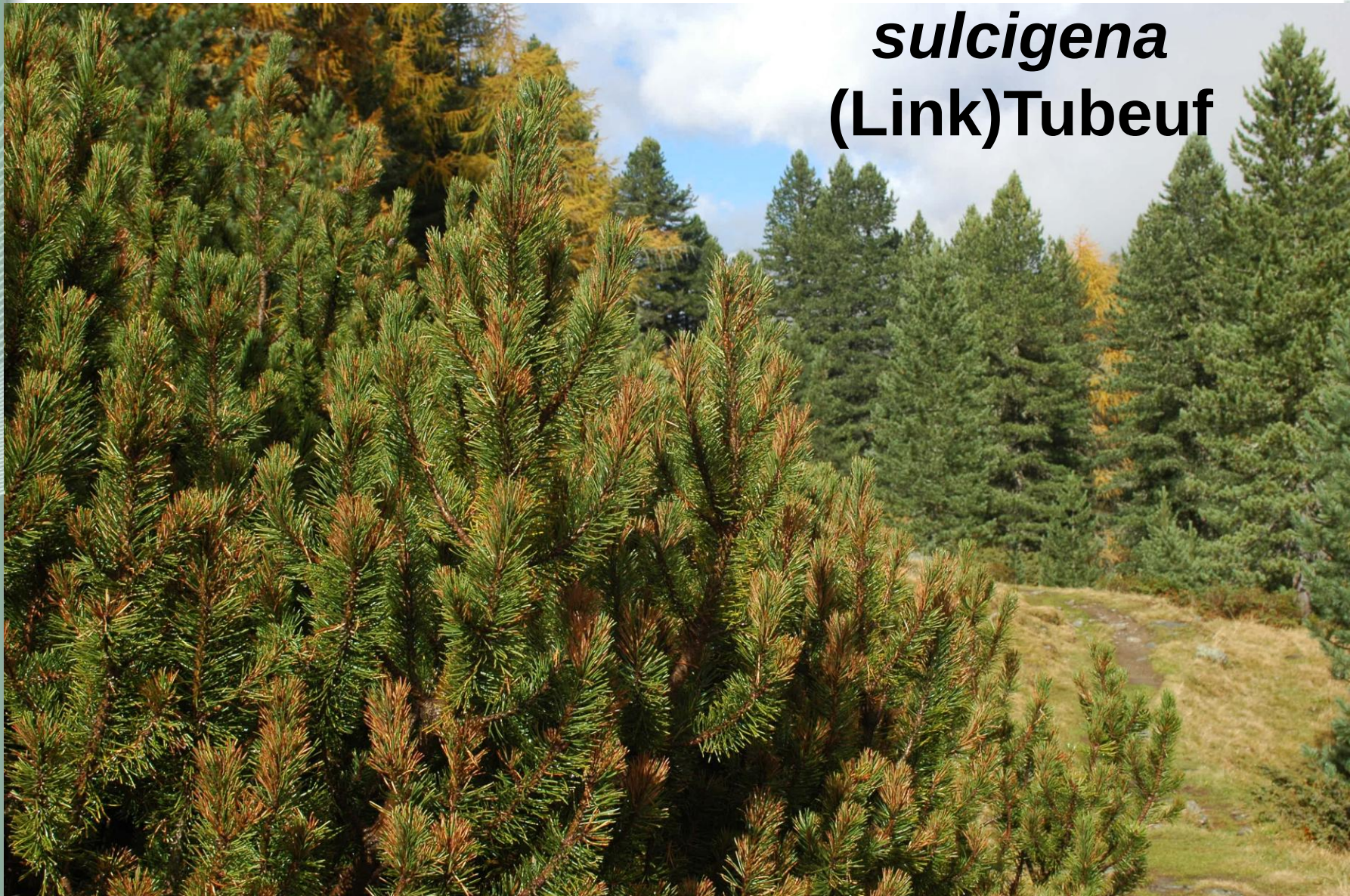


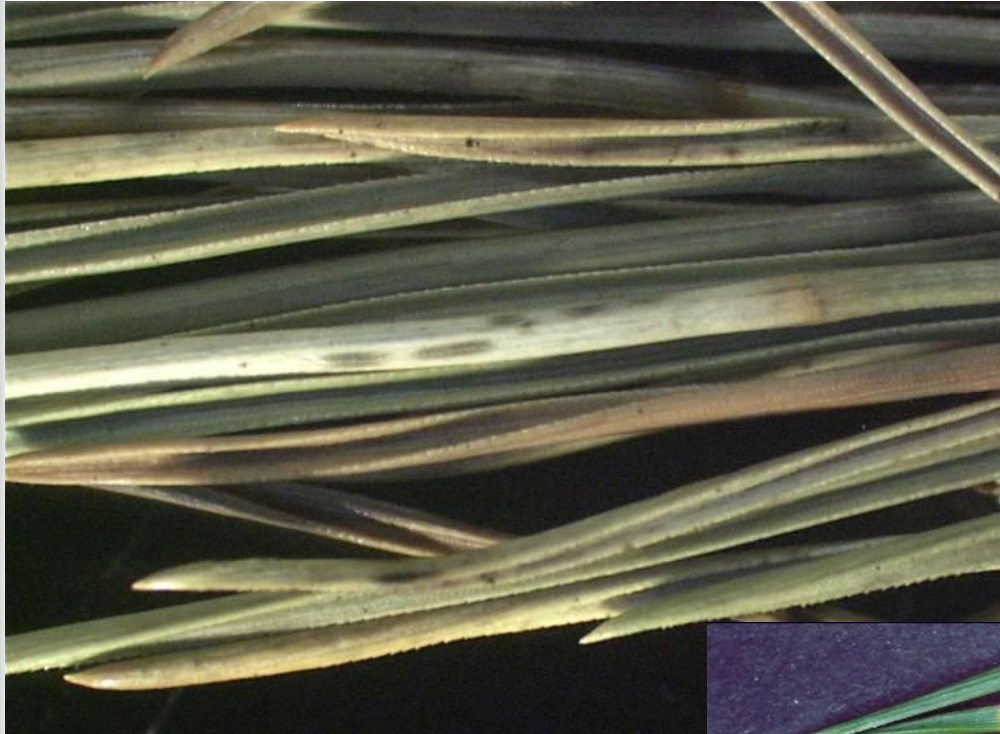
Fotos: http://www.mycology.adelaide.edu.au/Fungal_Descriptions, University of Adelaide

***Gremmeniella abietina* (Lagerb.) Morelet**



***Lophodermella
sulcigena*
(Link) Tubeuf**





Lophodermella sulcigena

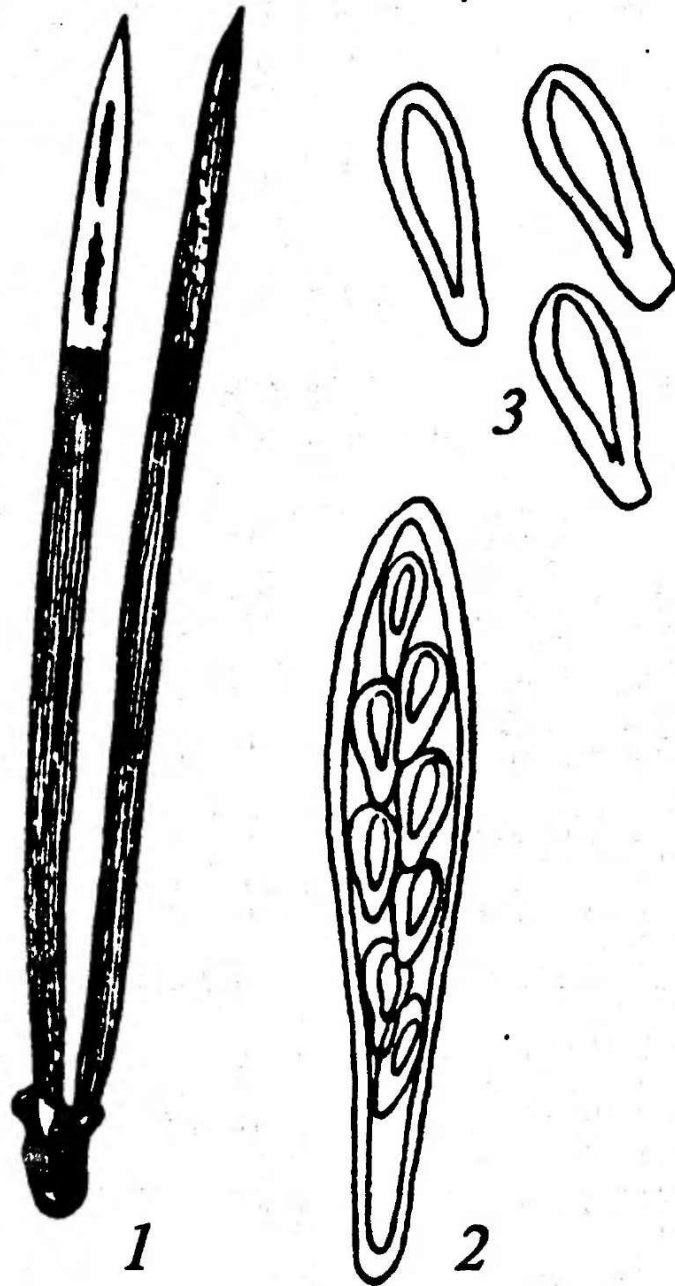


Lophodermella sulcigena

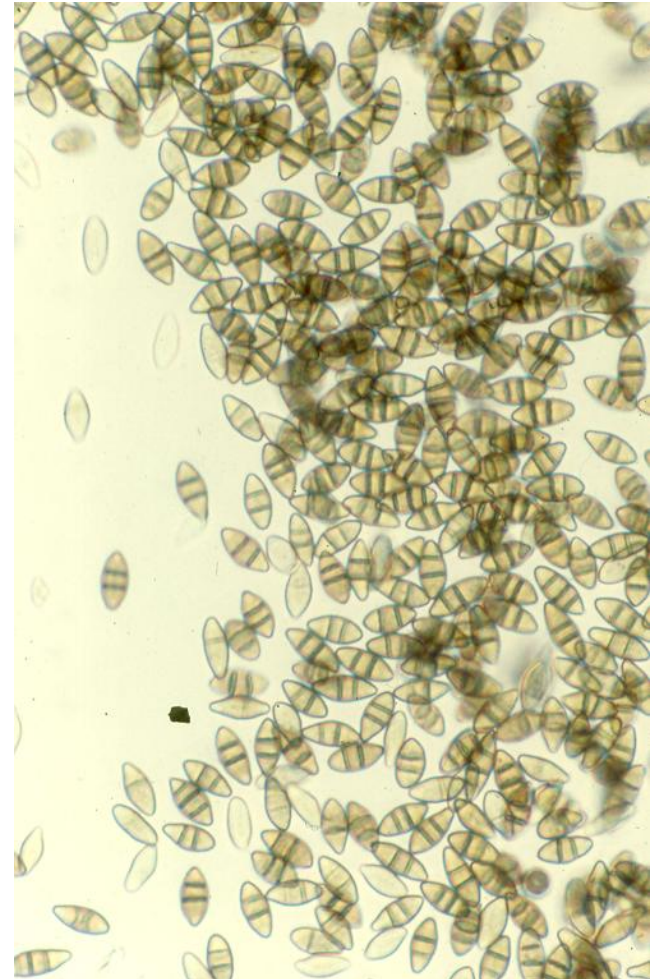
©Forestry Commission 2012



Lophodermella sulcigena



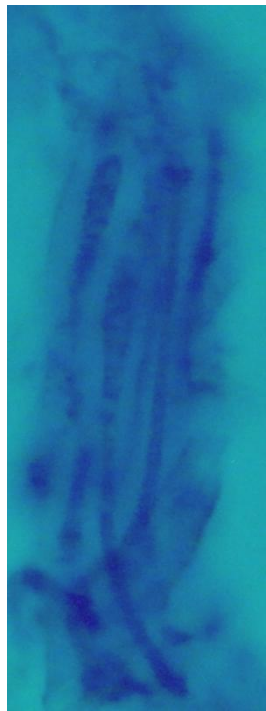
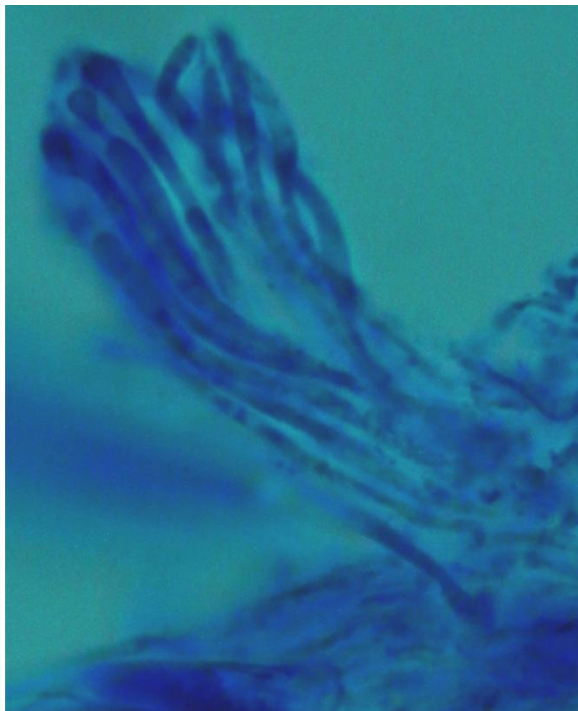
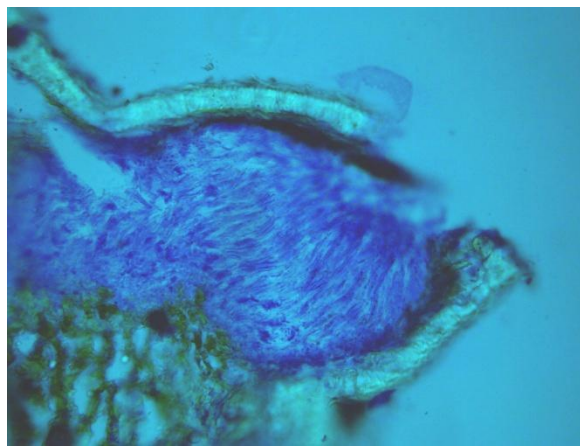
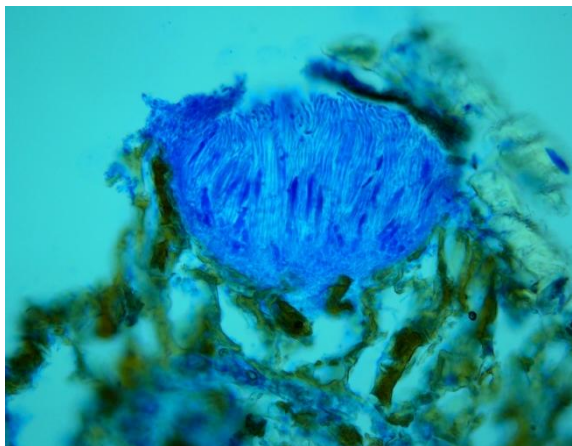
Hendersonia acicola Muench & Tubeuf



Lophodermella conjuncta (Darker)Darker



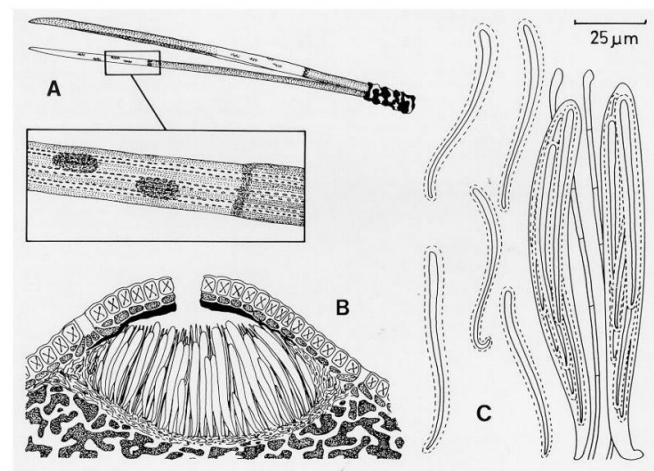
Lophodermella conjuncta (Darker)Darker



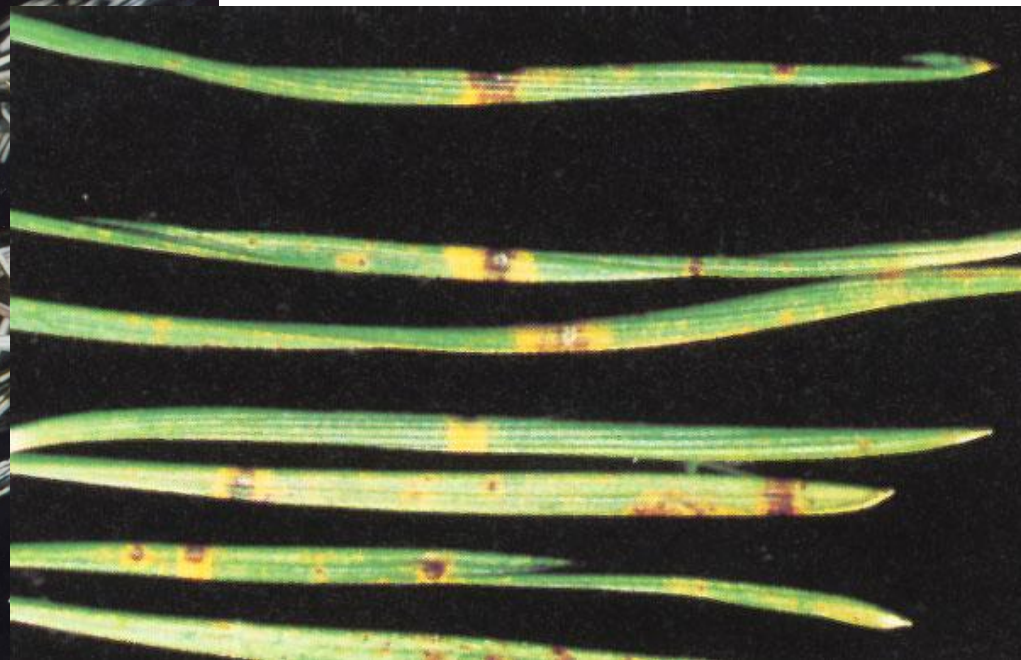
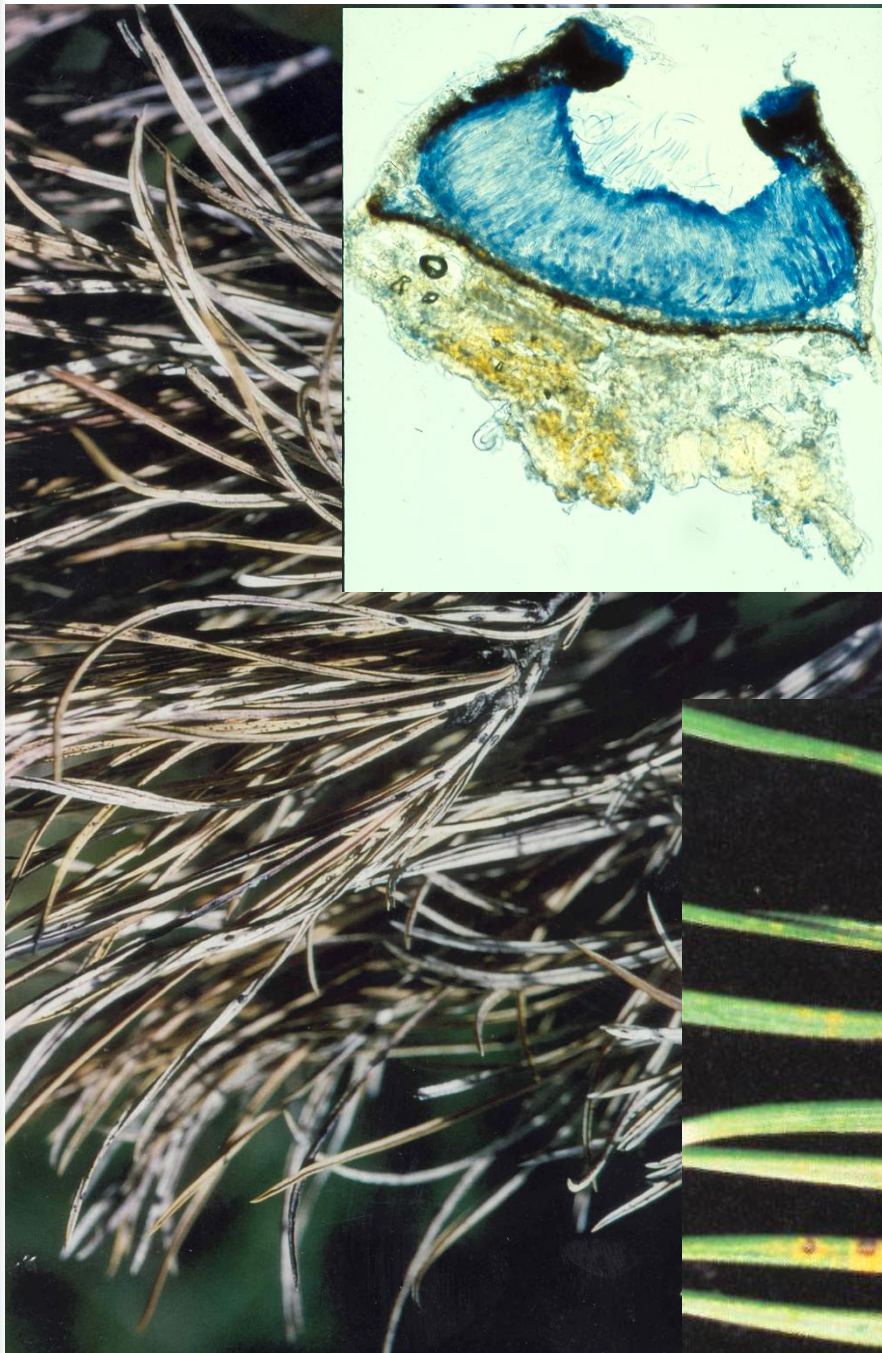
CMI Descriptions of
Pathogenic Fungi and
Bacteria No. 658

© CAB

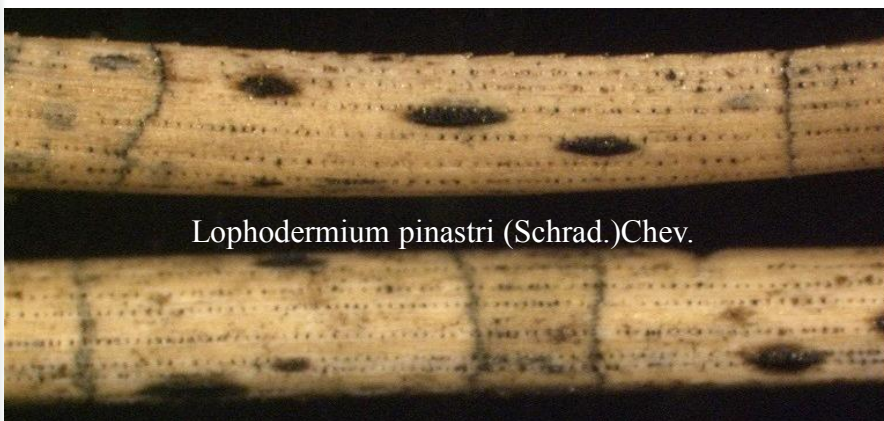
LOPHODERMELLA CONJUNCTA



Lophodermium seditiosum
Minter, Staley & Millar



Lophodermium seditiosum
Minter, Staley & Millar

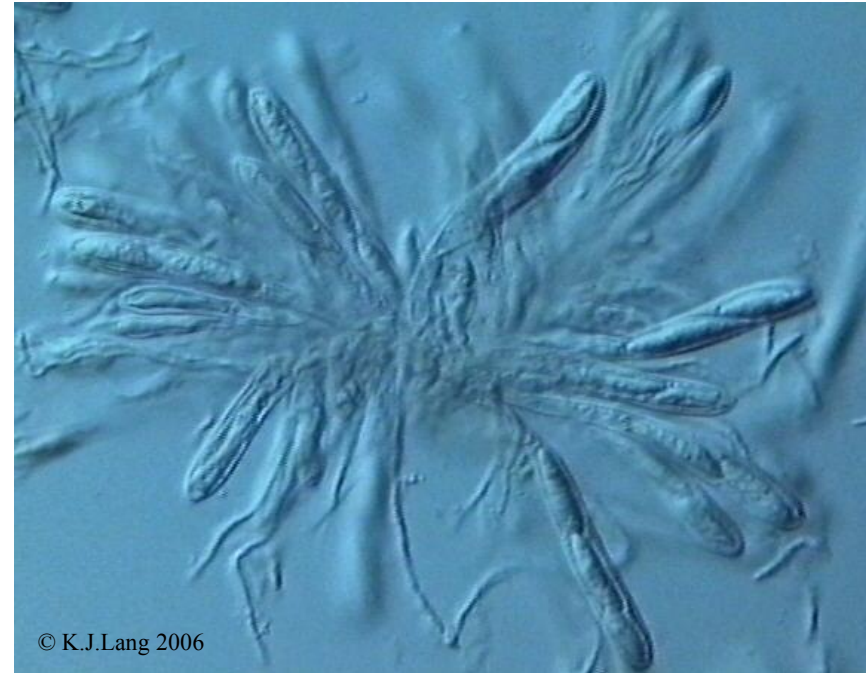




Phacidium infestans
P.Karst.



Phacidium infestans
P.Karst.



© K.J.Lang 2006



© www.pilzbestimmer.de

© Butin & Söderholm, Sydowia 1982

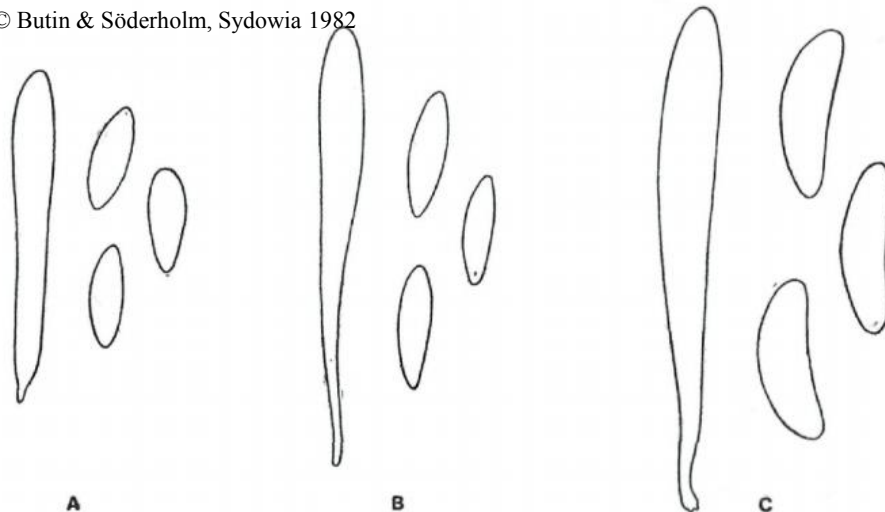


Abb. 3. Aszi und Askosporen von *Phacidium lacerum* (A), *Ph. fennicum* (B) und *Ph. infestans* (C). — Vergr. der Aszi 500 ×; Vergr. der Askosporen 1000 ×).

Phacidium lacerum Fr.

Dothiorella pinastri (Fr.) Sacc.
1884

Dothidea pinastri Fr. 1828

Phacidium lacerum Fr. 1818

Fusicoccum taxi Died. 1912

Fusicoccum bacillare Sacc. &
Penz. 1882

Blennoria bacillaris (Penz. &
Sacc.) Petr. 1924

Blennoria pinastri (Fr.) Petr.
1929

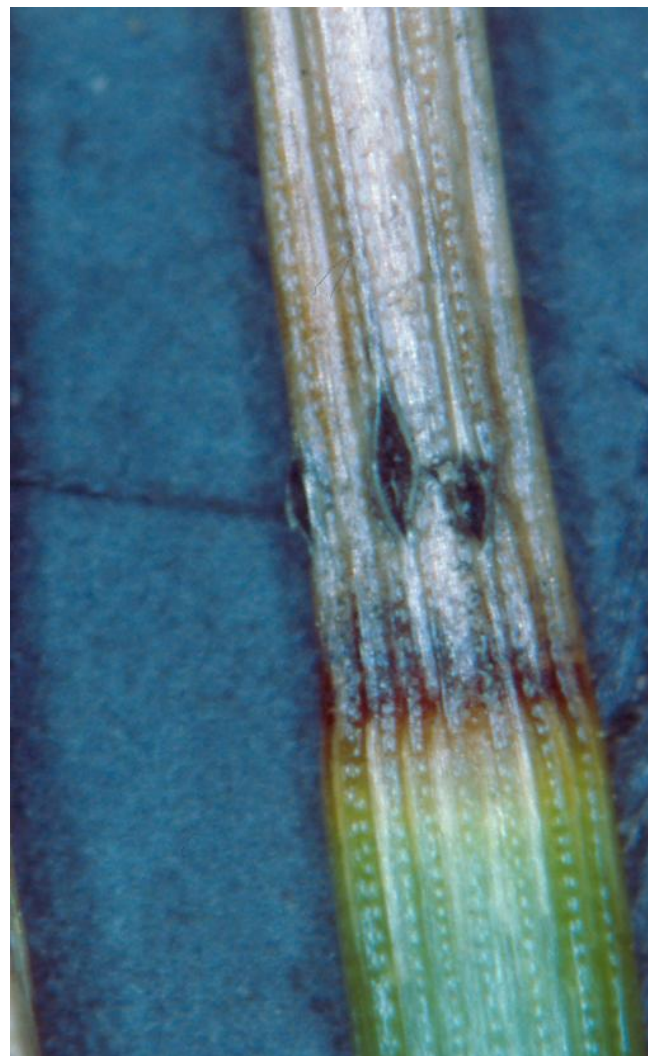
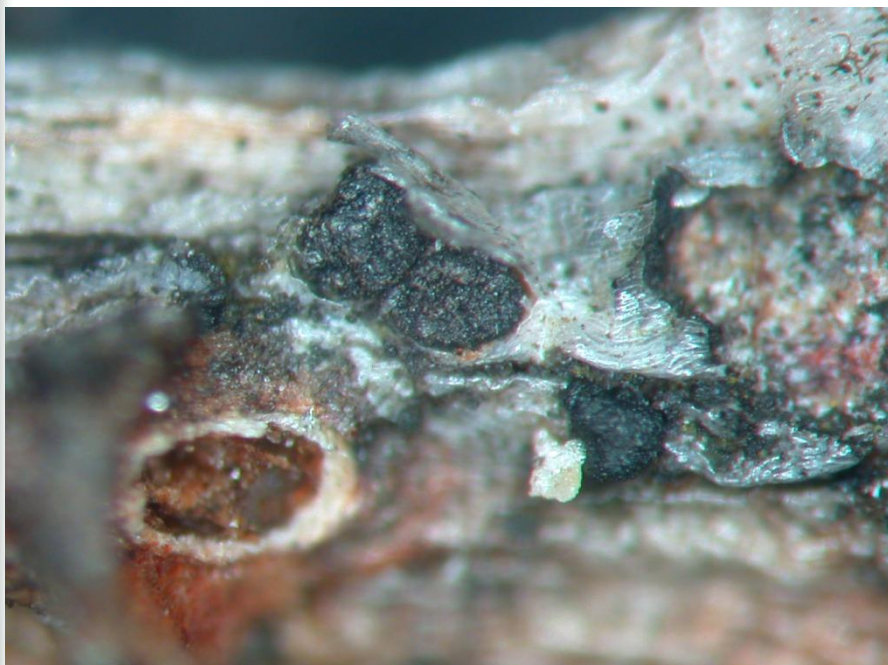
Ceuthospora pinastri (Fr.)
Höhn. 1925

Ceuthospora taxi (Died.)
Höhn. 1925

Dothiorella pinastri Linder
1943

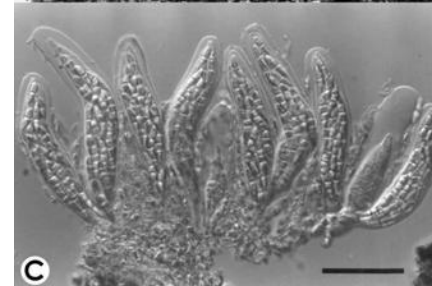
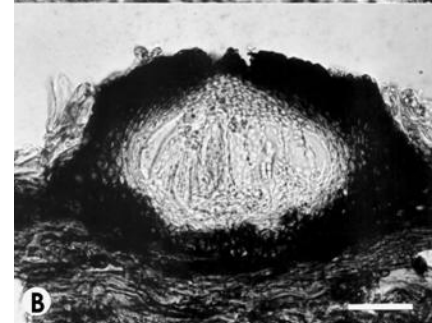
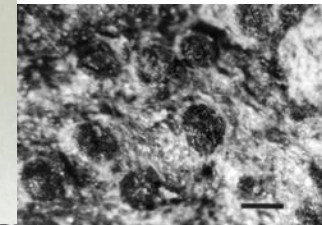
Ceuthospora bacillaris (Penz.
& Sacc.) Höhn.

Sclerophoma pithyophila
(Cda.) Hoehn.

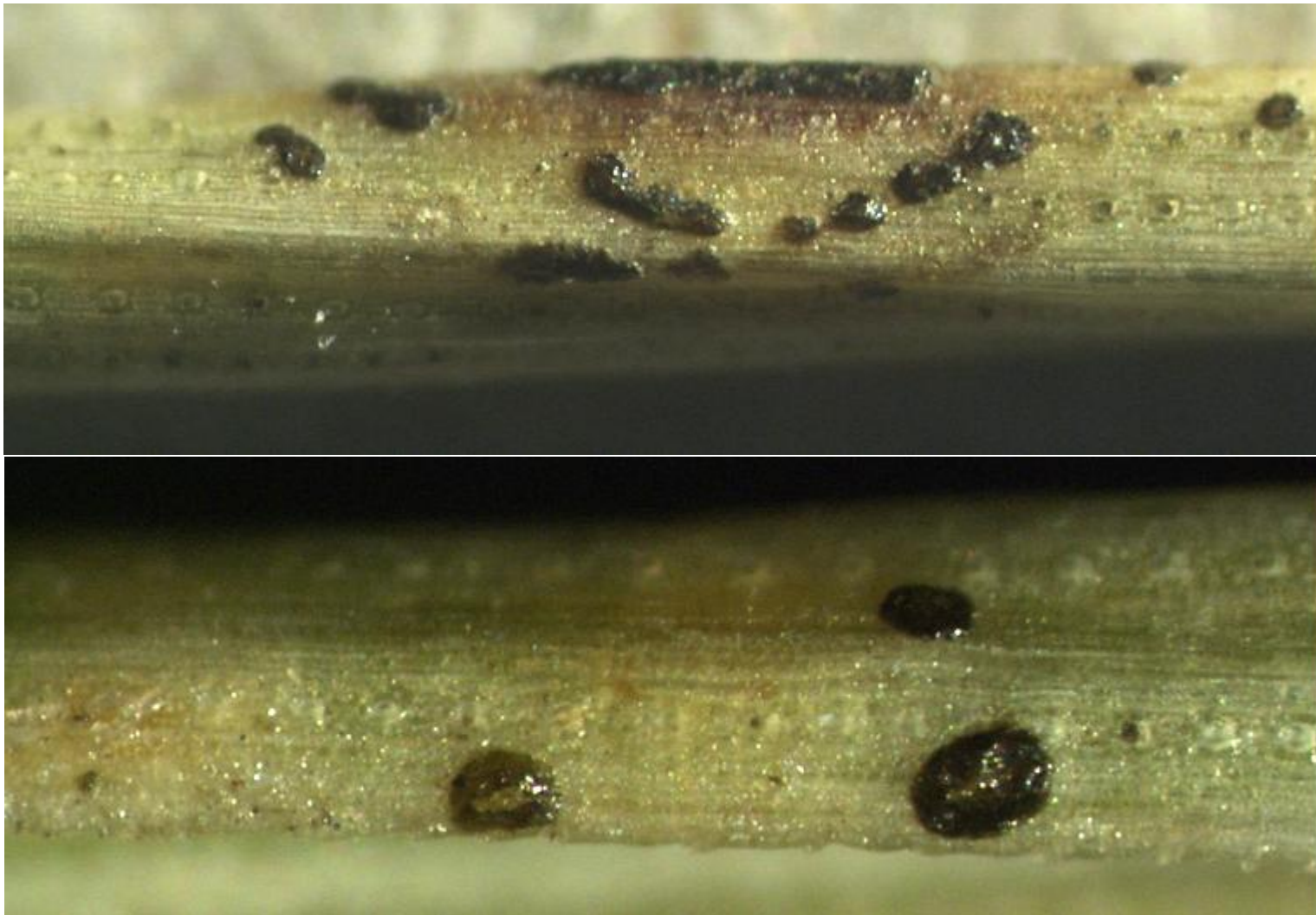


Sclerophoma pithyophila (Cda.) Hoehn.

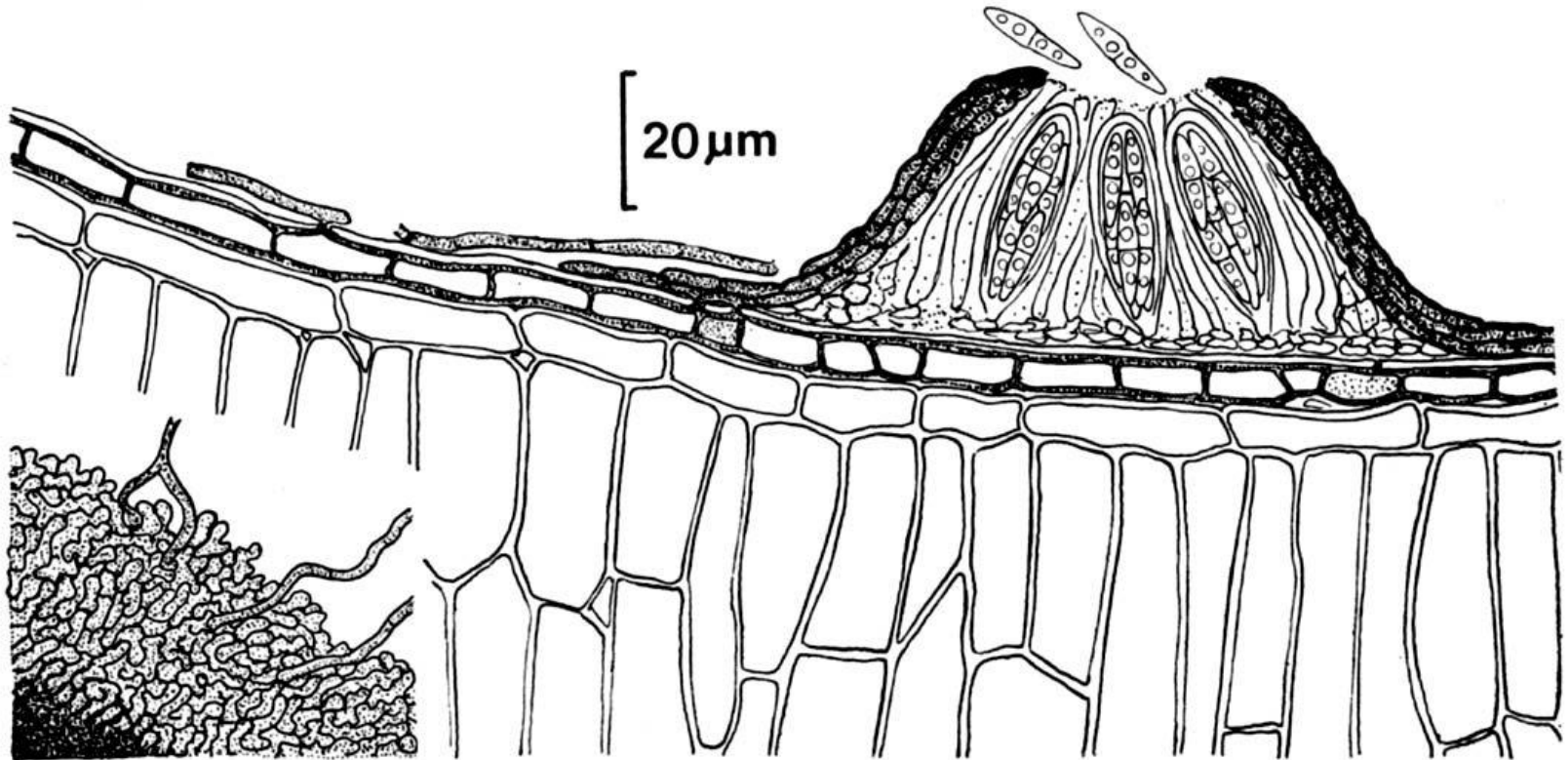
Teleomorph: *Sydowia polyspora*



Thyriopsis halepensis
(Cooke) Theiss. & Syd.



Thyriopsis halepensis



v.Ar. & Mueller, Studies in Mycology No.9, 1975



Zythiostroma pinastri
(P. Karst.) Höhn.

(Teleomorph: *Scolecconectria cucurbitula* (Tode) Booth)

