

Microscopic Identification and Characterization of Botanicals

March 28 – April 1, 2011

Location:

Joint Institute for Food Safety and Applied Nutrition (JIFSAN)
Patapsco Building
5201 Paint Branch Ave. Suite 2134
College Park, MD 20742

Learning Objectives:

At the end of this course participants will be able to understand: (1) basic optical theory; (2) value of voucher specimens; (3) diagnostic features of ground plant materials; (4) how to obtain information on botanical nomenclature, literature, botany, plant taxonomy, and plant anatomy; (5) how to write a brief monograph identifying the different cell types in a botanical sample; and (6) how to maintain and use compound light microscopes with brightfield or polarized light.

Course Description:

This is an intensive five day course which includes lectures and hands-on training.

<p>Brightfield and Polarized Light Microscopy: Basic Optics Purchasing a microscope Adjusting -Koeller illumination Calibrating an ocular micrometer and basic measurements</p> <p>Botanical Nomenclature: Common names Latin binomials</p> <p>Authors</p> <p>Reference Specimens:</p> <p>Herbarium specimens: Ground and chopped specimens Making a plant collection Cataloging a collection</p> <p>Basic Botany: Plant families Plant Organs Plant tissues</p>	<p>Reference Literature:</p> <p>Diagnostic Features of Ground Plant Material: Laboratory techniques Rehydrating and clearing dried material Powdering, grinding, and chopping</p> <p>Slide making techniques: Tools Reagents Particle handling Chemistry on the microscope slide</p> <p>Documentation of analytical results: Value of images Sample integrity Monographs</p>
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Instructors: George C. Ziobro, Ph.D.
Stanley Cichowicz (FDA retired)
Steven Casper, Ph.D.

Course Fee:: \$100 (Limited Space Available!)

To Register, [Click Here](#)

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