Mahogany was the tropical hardwood of choice for 18th- and early 19th-century furniture made in Great Britain and North America because of its lustrous grain, rich brown color, and density. Cabinetmakers, house carpenters, and ship builders obtained supplies of this exotic wood, which was harvested in the West Indies and Central America. The heaviest and most figured mahogany found in furniture has traditionally been described as “Cuban” or “Santo Domingo,” though historically, there was no scientific way to isolate either a geographic source or an exact species of mahogany. Seeking new methods of recognizing the mahoganies in American furniture, the Yale University Art Gallery collaborated with furniture conservator Randy Wilkinson, Principal at Fallon & Wilkinson, LLC, in Baltic, Connecticut, on a pilot study to identify the mahogany species used in the Gallery’s Rhode Island furniture. The project grew out of the Gallery’s ongoing research on Rhode Island furniture and was funded by the Wunsch Americana Foundation, and the preliminary results have expanded our understanding of American cabinetmaking and led to collaborations with other scientists. This symposium presents an overview of the history of mahogany in Great Britain, North America, and Rhode Island. It also introduces scientific methods that can be used to pinpoint various species of mahogany and explores how the results can enrich our understanding of the furniture and architecture trades in Britain and early America.

All programs are held in the Robert L. McNeil, Jr., Lecture Hall unless otherwise noted.

Thursday, November 1
5:30 pm
Opening Keynote
Mapping the Mahogany Trade in the 18th and 19th Centuries
Dr. Adam Bowett, Independent Furniture Historian, North Yorkshire, United Kingdom

6:30 pm
Reception
Jan and Frederick Mayer Lobby

Friday, November 2
8:30 am
Registration

9:00 am
Welcome
Patricia E. Kane, Friends of American Arts Curator of American Decorative Arts, Yale University Art Gallery, New Haven, Connecticut

Ian McClure, The Susan Morse Hilles Chief Conservator, Yale University Art Gallery, and Interim Director, Institute for the Preservation of Cultural Heritage, Yale University, New Haven, Connecticut

9:10 am
The Historical Perspective on the Species of Mahogany Used in North America

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9:10 am
The Mahogany Trade in Early New England: Chasing the Archival Paper Trail
Jennifer L. Anderson, Associate Professor of History, Stony Brook University, State University of New York

10:00 am
Mahogany and Cabinetmaking in Rhode Island
Patricia E. Kane, Friends of American Arts Curator of American Decorative Arts, Yale University Art Gallery, New Haven, Connecticut

10:50 am
Break
Scientific Techniques for Differentiating Species of Mahogany Used in North America

11:10 am
Introductory Remarks
Anikó Bezur, The Wallace S. Wilson Director of Scientific Research, Technical Studies Laboratory, Institute for the Preservation of Cultural Heritage, Yale University, New Haven, Connecticut

11:15 am
Wood Species Identification by DART TOF-MS
Cady A. Lancaster, Ph.D., Analytical Chemist, Wood Identification and Screening Center, U.S. Forest Service International Programs, Ashland, Oregon

11:40 am
Separating the Three Species of Swietenia spp. in Rhode Island Furniture Using Direct Analysis in Real Time: Time-of-Flight Mass Spectrometry (DART TOF-MS)
Randy Wilkinson, Furniture Conservator and Principal, Fallon & Wilkinson, LLC, Baltic, Connecticut

12:10 pm
Lunch break

1:30 pm
Examining Mahogany Using Laser-Induced Breakdown Spectroscopy (LIBS) and Stable Isotope Analysis
Richard R. Hark, Assistant Conservation Scientist, Yale Institute for the Preservation of Cultural Heritage, New Haven, Connecticut, H. George Foster Professor of Chemistry (on leave), Juniata College, Huntingdon, Pennsylvania

1:55 pm
Wood Species Identification Using Pyrolysis-Gas Chromatography/Mass Spectrometry
Michael Schilling, Senior Scientist, Getty Conservation Institute, Los Angeles

2:40 pm
Examination of Mahogany in the Yale Furniture Study by Pyrolysis-Gas Chromatography/Mass Spectrometry
Katherine A. Schilling, Ph.D., Associate Conservation Research Scientist, Yale Institute for the Preservation of Cultural Heritage, New Haven, Connecticut

3:00 pm
Break

3:20 pm
New Thoughts on Old Wood: Case Studies for the Future of Mahogany Scholarship
John Stuart Gordon, Benjamin Attmore Hewitt Associate Curator of American Decorative Arts, Yale University Art Gallery, New Haven, Connecticut

4:00 pm
Questions and Discussion

Acknowledgments
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