SELECTED REFERENCES

[The Selected References section is a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Abbreviated mailing address information duplicates that which is provided by the abstracting service. Patents and Proceedings are reported only by their Chemical Abstracts citation number.]


2. Rodriguez-Cruz SE, Carson KA. Anion identification via complexation with meso-octamethylcalix(4)pyrrole and detection using electrospray ionization mass spectrometry. Journal of Forensic Sciences 2010;55(2):499-507. [Editor’s Notes: The routine identification of controlled substances and adulterants during forensic chemistry analysis often involves the identification of counter ions or salt forms present in an exhibit. Here, the use of the compound meso-octamethylcalix(4)pyrrole (C4P) during salt-form identification analysis is presented. C4P is a commercially-available, anion-
binding agent that can be reacted with a controlled substance or adulterant, resulting in
the sequestration of anionic species, usually present as counter ions to the active
ingredient. Formation of noncovalent complexes between the cyclic host C4P
compound and anionic guests is investigated using electrospray ionization–mass
spectrometry (ESI–MS). Complexes with chloride, bromide, iodide, nitrate, and acetate
are readily observed and mass spectrometry analysis provides identification via
molecular weight characterization. Chloride and bromide complexes are also
characterized by the isotopic distribution of their molecular ions. Formation of host–
guest complexes is not observed for sulfate and phosphate salts, presumably due to
steric hindrance and energetically unfavorable conditions. Contact: U.S. Drug
Enforcement Administration, Southwest Laboratory, Vista, CA 92081, USA.

cannabinoids as designer drugs in herbal products. Forensic Science International
2010;198(1-3):31-38. [Editor’s Notes: Several synthetic cannabinoids were found in 44
of 46 different kinds of herbal products that are currently distributed on the illegal drug
market in Japan. GC/MS and LC/MS analyses indicated that most of the products
contained two major synthetic cannabinoids: cannabicyclohexanol and JWH-018.
Oleamide, JWH-073, and CP-47,497 were also detected in some of the products. This
study details the analysis and identification of these synthetic cannabinoids in herbal
products. Contact: National Institute of Health Sciences, 1-18-1 Kamiyoga,
Setagaya-ku, Tokyo 158-8501, Japan.]

Additional References of Possible Interest:

1. Green FM, Salter TL, Stokes P, Gilmore IS, O'Connor G. Ambient mass
spectrometry: Advances and applications in forensics. Surface and Interface
Analysis 2010;42(5):347-357. [Editor’s Notes: Presents title study. Contact: National
Physical Laboratory, Teddington, Middlesex TW11 0LW.]

2. Mario JR. A probability-based sampling approach for the analysis of drug seizures
composed of multiple containers of either cocaine, heroin, or Cannabis. Forensic
Science International 2010;197(1-3):105-113. [Editor’s Notes: Presents title study.
Contact: Suffolk County Crime Laboratory Drug Chemistry Section, Office of the
Chief Medical Examiner, Hauppauge, NY 11788, USA.]

3. Pavlic M, Schubert B, Libiseller K, Oberacher H. Comprehensive identification of
active compounds in tablets by flow-injection data-dependent tandem mass
spectrometry combined with library search. Forensic Science International 2010;197
(1-3):40-47. [Editor’s Notes: Presents title study. Contact: Institute of Legal
Medicine, Innsbruck Medical University, Muellerstrasse 44, Innsbruck 6020, Austria.]

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THE JOURNAL/TEXTBOOK COLLECTION EXCHANGE

The Journal/Textbook Collection Exchange is a service intended to facilitate the transfer of unwanted journals and textbooks to forensic libraries or other Microgram subscribers. The current donations are listed below. The offers are First Come/First Serve (except libraries have preference). There are no charges to the requestor. Please provide a full mailing address in the request. Important!: Do not provide an address that irradiates mail!

Journal of Forensic Sciences:
- 2001: January (#1), March (#2), May (#3), September (#5), November (#6)
- 2002: Complete set
- 2003: Complete set
- 2005: January (#1), May (#3), November (#6)

All subscribers are encouraged to donate surplus or unwanted items/collections. Reference texts and long runs of forensic/analytical journals are of particular interest; however, even single issues are worthwhile, and may fill a hole in an existing collection. If interested, please consult the Microgram website or contact the Microgram Editor for further instructions.

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THE DEA FY 2010 STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The FY 2010 schedule for the State and Local Forensic Chemists Seminar is as follows:

September 13-17, 2010

The school is open only to forensic chemists working for law enforcement agencies. It is intended for chemists who have completed their agency’s internal training program and have also been working on the bench for at least one year. There is no tuition charge. The course is held at the Hyatt Place Dulles North Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of this issue of Microgram Bulletin. Completed applications should be mailed to the Special Testing and Research Laboratory (Attention: J. Head) at 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, call (703) 668-3349.

*****  *****  *****  *****  *****  *****
SCIENTIFIC MEETINGS

Title: 2010 Southwestern Association of Forensic Scientists Annual Meeting  
Sponsoring Organization: Southwestern Association of Forensic Scientists  
Inclusive Dates: September 20 - 24, 2010  
Location: Great Wolf Lodge (Grapevine, TX)  
Contact Information: swafs2010@yahoo.com  
Website: www.swafs.us

* * * * *

Title: Southern Association of Forensic Scientists Annual Fall Meeting  
Sponsoring Organization: Southern Association of Forensic Scientists  
Inclusive Dates: September 19 - 24, 2010  
Location: Hollywood Casino Hotel (Tunica, MS)  
Contact Information: See Website  
Website: www.southernforensic.org

* * * * *

Title: 2010 Northwest Association of Forensic Scientists Meeting  
Sponsoring Organization: Northwest Association of Forensic Scientists  
Inclusive Dates: September 27 - October 1, 2010  
Location: Crown Plaza Portland (Portland, OR)  
Contact Information: See Website  
Website: www.nwafs.org

* * * * *

Title: 2010 Midwestern Association of Forensic Scientists 39th Annual Meeting  
Sponsoring Organization: Midwestern Association of Forensic Scientists  
Inclusive Dates: October 4 - 8, 2010  
Location: Kansas City Marriott Downtown (Kansas City, MO)  
Contact Information: See Website  
Website: www.mafs.net

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### DEA State and Local Forensic Chemist Seminar Application

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### Education

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Please Check Which Techniques or Equipment Are Used in Your Laboratory

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Indicate Analytical Problem(s) Nominee Would Like to Have Covered:

Choice of Seminar Dates:
1st Choice: 2nd Choice:

Laboratory Chief/Director:

Printed Name: Signature:

Title: Date:

Phone: