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.]

1. Buchanan HAS, Daeid NN, Kerr WJ, Carter JF, Hill JC. Role of Five Synthetic Reaction Conditions on the Stable Isotopic Composition of 3,4-Methylenedioxymethamphetamine. Analytical Chemistry 2010;82(13):5484-5489. [Editor’s Notes: The identification of links between seizures of illicit 3,4-methylenedioxymethamphetamine (MDMA or "ecstasy") has been a global target of law enforcement agencies in recent years. Previous work has shown that, when the reaction conditions are carefully repeated from batch to batch, stable isotope ratios allow the discrimination of MDMA-hydrochloride batches according to synthetic route used for manufacture. In this study, the effects of altering five reaction conditions relating to the Pt/H₂ reductive amination synthesis were, for the first time, systematically investigated using a two level, five factor factorial design. Results indicate that the δ²H values of MDMA hydrochloride are affected by the length of imine stir time, and the δ¹⁵N values are affected by the degree of excess methylamine employed. Furthermore, the δ¹³C and δ¹⁸O values have been shown to be affected by the efficiency of the]
reaction, despite the similarity in carbon and oxygen composition of the starting material
and product molecules. In addition to being of theoretical importance in this field of
analytical science overall, this work is essential in order to more fully contextualize the
interpretation of IRMS data which may be used as potential forensic evidence. Contact:
Centre for Forensic Science, Department of Pure & Applied Chemistry, University of
Strathclyde, Glasgow G1 1WX, UK.]

2. Maher HM, Awad T, DeRuiter J, Clark CR. GC-IRD methods for the identification
of some tertiary amines related to MDMA. Forensic Science International 2010;199
(1-3):18-28. [Editor’s Notes: Presents title study. Contact: Department of
Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University,
Alexandria 21521, Egypt.]

Additional References of Possible Interest:

AE. Enantiodiscrimination of methamphetamine by circular dichroism using a
porphyrin tweezer. Chirality 2010;22(4):398-402. [Editor’s Notes: Exciton-coupled
circular dichroism (ECCD) spectroscopy was able to differentiate between the two
enantiomers of methamphetamine using a commercially available porphyrin tweezer as
an achiral host. The host-guest complex formed with (+)-(S)-methamphetamine produced
a negative bisignate-shaped ECCD spectrum, whereas the complex formed
with (-)-(R)-methamphetamine produced a positive one. This sensitive technique could
serve as an alternative method for the enantiodiscrimination of chiral methamphetamine.
Contact: Department of Chemistry, Doane College, Crete, NE 68333, USA.]

2. Rodomonte AL, Gaudiano MC, Antoniella E, Lucente D, Crusco V, Bartolomei M,
Bertocchi P, Manna L, Valvo L, Alhaique F, Muleri N. Counterfeit drugs detection
by measurement of tablets and secondary packaging colour. Journal of
Pharmaceutical and Biomedical Analysis 2010, 53(2), 215-220. [Editor’s Notes:
Presents title study. Contact: Istituto Superiore di Sanita, Dipartimento del Farmaco,
Viale Regina Elena 299, Rome 00161, Italy.]

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2006: January (#1), July (#2)

Forensic Science International:
2004: July (#2-3), August (#1), October (#2-3), November (#1), December (#2-3), December (Supplemental)
2005: January (#1), January (#2-3), March (#2-3)

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THE DEA FY 2011 STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The FY 2011 schedule for the State and Local Forensic Chemists Seminar is as follows:

November 1-5, 2010
March 7-11, 2011
June 6-10, 2011
September 12-16, 2011

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.

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SCIENTIFIC MEETINGS

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

* * * * *

Title: The 2010 NEAFS & NEDIAI Joint Meeting
Sponsoring Organization: North Eastern Association of Forensic Scientist and the New England Division IAI Program
Inclusive Dates: November 8 - 12, 2010
Location: Equinox Golf Resort and Spa (Manchester, VT)
Contact Information: NEAFS2010@gmail.com
Website: www.neafs.org

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**DEA State and Local Forensic Chemist Seminar Application**

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