

Thursday, May 31, 2012

Oral Programm

GERSTEL

Room 1000  
14:25

LE.42.

CHARACTERIZATION OF SULPHUR COMPOUNDS IN WHISKEY BY FULL EVAPORATION DYNAMIC HEAD SPACE (FEDHS) AND HEART-CUTTING 2D RETENTION TIME LOCKED (RTL) GC-MS WITH SIMULTANEOUS ELEMENT-SPECIFIC DETECTION

N. Ochiai<sup>1</sup>, K. Sasamoto<sup>1</sup>, K. MacNamara<sup>2</sup>

<sup>1</sup> GERSTEL K.K., Tokyo, Japan

<sup>2</sup> Midleton Distilleries, Midleton, Ireland

Poster Program

J.17. LARGE VOLUME INJECTION WITH GC/MS MULTI COLUMN SWITCHING FOR DIRECT DETERMINATION OF ETHYL CARBAMATE IN ALCOHOLIC BEVERAGES

Andreas Hoffmann, Thomas Albinus, Kevin MacNamara

Gerstel GmbH & Co.KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany

J.18. USING TWO-DIMENSIONAL GAS CHROMATOGRAPHY-COMBUSTION-ISOTOPE RATIO MASS SPECTROMETRY FOR THE <sup>13</sup>C/<sup>12</sup>C DETERMINATION OF WAXES IN TOBACCO LEAVES

Emmie Dumont<sup>1</sup>, Bart Tienpont<sup>1</sup>, Nobukazu Higashi<sup>2</sup>, Kazuhisa Mitsui<sup>2</sup>, Nobuo Ochiai<sup>3</sup>, Kikuo Sasamoto<sup>3</sup>, Frank David<sup>1</sup>, Pat Sandra<sup>1</sup>

<sup>1</sup> R.I.C., President Kennedypark 26, 8500 Kortrijk, Belgium

<sup>2</sup> Japan Tobacco Inc, 6-2 Umegaoka, Aoba-ku, 227-8512 Yokohama, Japan

<sup>3</sup> Gerstel KK, 1-3-1 Nakane, Meguro-ku, 152-0031 Tokyo, Japan

M.24. A NEW VALIDATED ANALYTICAL METHOD FOR THE DETERMINATION OF TRIBUTYL TIN IN WATER SAMPLES AT THE QUANTIFICATION LEVEL SET BY THE EUROPEAN UNION

Christophe Devos, Frank David, Pat Sandra

R.I.C., President Kennedypark 26, 8500 Kortrijk, Belgium

M.26. RAPID SCREENING OF ENDOCRINE DISRUPTING CHEMICALS (ECDS) BY STIR BAR SORPTIVE EXTRACTION WITH IN-SITU DERIVATISATION FOR BIOTECH APPLICATIONS: EFFECTIVENESS OF LACCASE CRUDE EXTRACTS OF BASIDIOMYCETES IN THE DEGRADATION OF ORGANIC POLLUTANTS

Chiara Cordero<sup>1</sup>, Barbara Sgorbini<sup>1</sup>, Federica Spina<sup>2</sup>, Ugo Roggero<sup>2</sup>, Giovanna C. Varese<sup>2</sup>, Tiziana Schilirò<sup>3</sup>, Giorgio Gilli<sup>3</sup>, Carlo Bicchi<sup>1</sup>

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<sup>2</sup> Dipartimento di Scienze della Vita e Biologia dei Sistemi - University of Turin, Viale Mattioli, 25, I-10125 Turin, Italy

<sup>3</sup> Dipartimento di Igiene Pubblica e Microbiologia - University of Turin, Via Santena, 5bis, I-10126 Turin, Italy

P.12. FLAVOR AND FRAGRANCE ANALYSIS OF CONSUMER PRODUCTS - DYNAMIC HEADSPACE COMPARED TO SOME TRADITIONAL ANALYSIS APPROACHES

Andreas Hoffmann

Gerstel GmbH & Co.KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany

P.44. CHARACTERIZATION OF TOBACCO LEAVES USING GC-QTOF AND A METABOLOMIC APPROACH

Frank David<sup>1</sup>, Melissa Dunkle<sup>1</sup>, Nobukazu Higashi<sup>2</sup>, Kazuhisa Mitsui<sup>2</sup>, Nobuo Ochiai<sup>3</sup>, Kikuo Sasamoto<sup>3</sup>, Pat Sandra<sup>1</sup>

<sup>1</sup> R.I.C., President Kennedypark 26, 8500 Kortrijk, Belgium

<sup>2</sup> Japan Tobacco Inc, 6-2 Umegaoka, Aoba-ku, 227-8512 Yokohama, Japan

<sup>3</sup> Gerstel KK, 1-3-1 Nakane, Meguro-ku, 152-0031 Tokyo, Japan

P.45. COMPARISON OF TWO PYROLYSIS SYSTEMS IN COMBINATION WITH GAS OR LIQUID CHROMATOGRAPHY.

Kazuhisa Mitsui<sup>1</sup>, Frank David<sup>2</sup>, Bart Tienpont<sup>2</sup>, Nobukazu Higashi<sup>1</sup>, Nobuo Ochiai<sup>3</sup>, Kikuo Sasamoto<sup>3</sup>, Pat Sandra<sup>2</sup>

<sup>1</sup> Japan Tobacco Inc, 6-2 Umegaoka, Aoba-ku, 227-8512 Yokohama, Japan

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G L O B A L A N A L Y T I C A L S O L U T I O N S



GERSTEL

ISCC 2012 Riva del Garda

Lectures & Posters

Tuesday, May 29, 2012

Poster Programm

K.02. SBSE-GC×GC-HRTOF-MS FOR ULTRA-TRACE ANALYSIS OF ORGANOCHLORINE PESTICIDES IN RIVER WATER

Nobuo Ochiai<sup>1</sup>, Teruyo Ieda<sup>1</sup>, Kikuo Sasamoto<sup>1</sup>, Yoshikatsu Takazawa<sup>2</sup>, Shunji Hashimoto<sup>2</sup>, Akihiro Fushimi<sup>2</sup>, Kiyoshi Tanabe<sup>2</sup>

<sup>1</sup> GERSTEL K.K., 1-3-1 Nakane Meguro-ku, 152-0031 Tokyo, Japan

<sup>2</sup> National Institute of Environmental Studies, 16-2 Onogawa, 305-8506 Tsukuba, Japan

K.76. FINGERPRINTING OF THE MOBILE AND BIOAVAILABLE FRACTION OF VOLATILE ORGANIC COMPOUNDS (VOCs) IN SOIL - BY DYNAMIC HEADSPACE (DHS) - THERMAL DESORPTION (TD) - GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS) ANALYSES

Peter Christensen<sup>1</sup>, Tore Vulpius<sup>2</sup>, Jens Glastrup<sup>2</sup>, Jan H. Christensen<sup>1</sup>

<sup>1</sup> Department of Basic Sciences and Environment - University of Copenhagen, Thorvaldsensvej 40, 1871 Frederiksberg C., Denmark

<sup>2</sup> MSC, Bøgesvinget 8, DK-2740 Skovlunde, Denmark

L.02. A SENSITIVE SBSE-TDS-GC/MS-METHOD FOR THE SCREENING OF LEACHABLES FROM PLASTIC PACKAGING MATERIALS IN AQUEOUS SAMPLES

Lucas Sternbauer<sup>1</sup>, Wolfgang Buchberger<sup>1</sup>, Alexander Standler<sup>2</sup>

<sup>1</sup> Institute of Analytical Chemistry - Johannes Kepler University Linz, Altenbergerstr. 69, 4040 Linz, Austria

<sup>2</sup> Borealis Polyolefine GmbH, St.-Peter-Str. 25, 4021 Linz, Austria

22:15h Twister Cocktail offered by GERSTEL, Congress Centre

Wednesday, May 30, 2012

## Oral Programm

08:50, Room 1000

**LE.11. EXTENDING THE GC APPLICATION RANGE USING GC-APCI-MS AND GC-SMB-MS***F. David<sup>1</sup>, B. Tienpont<sup>1</sup>, N. Higashi<sup>2</sup>, K. Mitsui<sup>2</sup>, N. Ochiai<sup>3</sup>, K. Sasamoto<sup>3</sup>, P. Sandra<sup>1</sup>*<sup>1</sup> R.I.C., Kortrijk, Belgium<sup>2</sup> Japan Tobacco Inc, Yokohama, Japan<sup>3</sup> Gerstel KK, Tokyo, Japan

15:45 – 16:45, Room 1000

## Seminar

GERSTEL

See page 88 for details

17:15, Room 1000

**KNL.08. HEART-CUTTING TWO-DIMENSIONAL GC IN COMBINATION WITH ISOTOPE RATIO MASS SPECTROMETRY FOR THE CHARACTERIZATION OF STEROLS IN PLANT MATERIAL***E. Dumont<sup>1</sup>, F. David<sup>1</sup>, B. Tienpont<sup>1</sup>, N. Higashi<sup>2</sup>, K. Mitsui<sup>2</sup>, N. Ochiai<sup>3</sup>, H. Kanda<sup>3</sup>, P. Sandra<sup>1</sup>*<sup>1</sup> R.I.C., Kortrijk, Belgium<sup>2</sup> Japan Tobacco Inc, Yokohama, Japan<sup>3</sup> Gerstel KK, Tokyo, Japan

17:45, Room 1000

**KNL.10. INVESTIGATING THE COFFEE FLAVOUR IN SOUTHAFRICAN PINOTAGE WINE USING NOVEL OFFLINE OLFACTOMETRY AND TDSGC×GC- TOFMS AND GC-HRTMS***Y. Naude<sup>1</sup>, P. Gorst-Allman<sup>2</sup>, E.R. Rohwer<sup>1</sup>*<sup>1</sup> University of Pretoria, Pretoria, South Africa<sup>2</sup> Leco Africa, Johannesburg, South Africa

## Poster Program

**C.05. COMPARING TWO NEW TYPES OF POLYMER ENRICHMENT PHASES AND PDMS FO STIR BAR SORPTIVE EXTRACTION (SBSE) OF AROMA COMPOUNDS FROM BEVERAGES***Yunyun Nie, Eike Kleine-Benne, Andreas Hoffmann**Gerstel GmbH & Co.KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany***C.19. APPLICATION OF FULL EVAPORATION DYNAMIC HEADSPACE (FEDHS) AND GC-MS TO THE ANALYSIS OF ODOR COMPOUNDS IN GREEN TEA***Kikuo Sasamoto<sup>1</sup>, Nobuo Ochiai<sup>1</sup>, Andreas Hoffmann<sup>2</sup>, Kazunori Okanoya<sup>3</sup>*<sup>1</sup> GERSTEL K.K., 1-3-1 Nakane, Meguro-ku, 152-0031 Tokyo, Japan<sup>2</sup> GERSTEL GmbH, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany<sup>3</sup> ITO EN Ltd, 21 Mekami, Makinohara-shi, 421-0516 Shizuoka, Japan**C.23. POLYETHYLENEGLYCOL-MODIFIED-SILICONE AND POLYACRYLATE TWISTERS FOR STIR BAR SORPTIVE EXTRACTION AND HEADSPACE SORPTIVE EXTRACTION OF VEGETABLE MATRICES IN THE FOOD AND COSMETIC FIELDS***Manuela R. Ruosi, Carlo Bicchi, Cecilia Cagliero, Alessandra Griglione, Erica Liberto, Patrizia Rubiolo, Barbara Sgorbini  
Dipartimento di Scienza e Tecnologia del Farmaco - University of Turin, Via Pietro Giuria 9, I-10125 Torino, Italy***C.25. LIQUID-LIQUID EXTRACTION FOLLOWED BY FULL EVAPORATION DYNAMIC HEADSPACE GC-MS (LLE-FEDHS-GC-MS) FOR ANALYSIS OF ODOR COMPOUNDS IN AQUEOUS SAMPLES***Jun Tsunokawa<sup>1</sup>, Nobuo Ochiai<sup>1</sup>, Kikuo Sasamoto<sup>1</sup>, Andreas Hoffmann<sup>2</sup>*<sup>1</sup> GERSTEL K.K., 1-3-1, Nakane, Meguro-ku,, 152-0031 Tokyo, Japan<sup>2</sup> GERSTEL GmbH & Co. KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany**D.01. AUTOMATED DYNAMIC HEADSPACE-SYSTEM IN CONNECTION WITH GC-PFPD FOR PROFILING OF VOLATILE SULPHUR COMPOUNDS IN WINES WITH AND WITHOUT OFFFLAVOUR***Thomas Franz<sup>1</sup>, Beata Beisert<sup>2</sup>, Leo Gros<sup>1</sup>, Doris Rauhut<sup>2,3</sup>*<sup>1</sup> Hochschule Fresenius, Limburger Straße 2, 65510 Idstein, Germany<sup>2</sup> Department of Microbiology and Biochemistry - Forschungsanstalt Geisenheim, Von-Lade-Straße 1, 65366 Geisenheim, Germany<sup>3</sup> Department Geisenheim - Hochschule Rhein Main University of Applied Sciences, Von-Lade-Straße 1, 65366 Geisenheim, Germany**E.06. SOLID PHASE MICROEXTRACTION (SPME) COUPLED WITH SELECTABLE 1D/2D GC-MS SYSTEM BASED ON CAPILLARY FLOW TECHNOLOGY FOR THE ANALYSIS OF FOOD PRODUCTS***John Stuff, Jacqueline Whitecavage**GERSTEL, Inc., 701 Digital Drive, Suite J, 21090 Linthicum, MD, United States***I.07. AUTOMATED LINER EXCHANGE AND ITS BENEFITS IN GC PESTICIDE ANALYSIS***Oliver Lerch, Andreas Hoffmann**Gerstel GmbH & Co.KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany***I.08. CONDITIONING OF THERMAL DESORPTION TUBES USING A NEW CONDITIONING UNIT***Marco Wolff, Thorsten Teutenberg**Research Analysis - Institute of Energy and Environmental Technology, Bliersheimer Strasse 58-60, 47229 Duisburg, Germany***I.11. APPLICATIONS OF SOFT IONIZATION USING APCI AND SUPERSONIC MOLECULAR BEAM FOR THE CHARACTERIZATION OF NATURAL PRODUCTS.***Frank David<sup>1</sup>, Bart Tienpont<sup>1</sup>, Nobukazu Higashi<sup>2</sup>, Kazuhisa Mitsui<sup>2</sup>, Nobuo Ochiai<sup>3</sup>, Kikuo Sasamoto<sup>3</sup>, Pat Sandra<sup>1</sup>*<sup>1</sup> R.I.C., President Kennedypark 26, 8500 Kortrijk, Belgium<sup>2</sup> Japan Tobacco Inc, 6-2 Umegaoka, Aoba-ku, 227-8512 Yokohama, Japan<sup>3</sup> Gerstel KK, 1-3-1 Nakane, Meguro-ku, 152-0031 Tokyo, Japan**N.08. QUANTIFICATION OF ETHANOL IN COMPLEX OIL SAMPLES: A COMPARISON OF DIFFERENT HEADSPACE TECHNIQUES AND AN AUTOMATED DIRECT INJECTION TECHNIQUE***Susanne Sperling, Eike Kleine-Benne, Andreas Hoffmann**Gerstel GmbH & Co.KG, Eberhard-Gerstel-Platz 1, 45473 Mülheim an der Ruhr, Germany*