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ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συμμετοχή του Οίκου GERSTEL & του Ινστιτούτου RIC*)

Σε συνεργασία με τον γνωστό Οίκο **Agilent Technologies**, έχουμε την τιμή να σας προσκαλέσουμε σε ενημερωτικό-επιστημονικό σεμινάριο, που διενεργείται σε δύο (2) χωριστές & ανεξάρτητες ημερίδες:

Οι δύο ημερίδες θα πραγματοποιηθούν, ως εξής:

1^η ημέρα: *Discover a New World of LC & LC/MS*

ΑΘΗΝΑ: 30 Οκτωβρίου 2006
DIVANI CARAVEL
Βασ. Αλεξάνδρου 2
ΘΕΣ/ΝΙΚΗ: 2 Νοεμβρίου 2006
ΜΑΚΕΔΟΝΙΑ PALACE
Λεωφ. Μ. Αλεξάνδρου 2

2^η ημέρα: *Latest Developments in GC & GC/MS*

ΑΘΗΝΑ: 31 Οκτωβρίου 2006
DIVANI CARAVEL
Βασ. Αλεξάνδρου 2
ΘΕΣ/ΝΙΚΗ: 3 Νοεμβρίου 2006
ΜΑΚΕΔΟΝΙΑ PALACE
Λεωφ. Μ. Αλεξάνδρου 2

Τα θέματα θα αναπτυχθούν στην Αγγλική από μια πλειάδα ειδικών στελεχών των Οίκων **Agilent Technologies**, **Gerstel** αλλά και του **RIC** (*Research Institute for Chromatography, Βέλγιο), που ίδρυσε & διευθύνει ο γνωστός καθηγητής Δρ. Pat Sandra.

Συνημμένα μπορείτε να δείτε τα αναλυτικά προγράμματα των δύο ημερίδων, τα βιογραφικά των ομιλητών ως και περιλήψεις των θεμάτων των δύο ημερίδων.

Η συμμετοχή σε οποιαδήποτε ή και στις δύο ημερίδες είναι χωρίς καμία επιβάρυνση. Λόγω όμως του ορισμένου αριθμού των διαθέσιμων θέσεων, αλλά και για την καλύτερη οργάνωση της όλης εκδήλωσης, παρακαλούμε θερμά όπως δηλώσετε την παρουσία σας, **έως και την Τετάρτη, 25 Οκτωβρίου 2006, το αργότερο**, στέλνοντας μας συμπληρωμένη την συν. Δήλωση Συμμετοχής με fax, courier, ταχυδρομικά ή email.

Η παρουσία σας θα αποτελέσει ιδιαίτερη τιμή για εμάς.

Για την **HELLAMCO A.E.**
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ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συνεργασία του Οίκου GERSTEL & του Ινστιτούτου RIC)

Discover a New World of LC and LC/MS

ΑΘΗΝΑ, Δευτέρα 30 Οκτωβρίου 2006
Ξενοδοχείο DIVANI CARAVEL
Βασ. Αλεξάνδρου 2, Τηλ.: 210-7207000

ΘΕΣΣΑΛΟΝΙΚΗ, Πέμπτη 2 Νοεμβρίου 2006
Ξενοδοχείο ΜΑΚΕΔΟΝΙΑ PALACE
Λεωφ. Μ. Αλεξάνδρου 2, Τηλ.: 2310-897197

Π Ρ Ο Γ Ρ Α Μ Μ Α

08:30	<i>Υποδοχή – Καφές</i>	
09:00	Εισαγωγή	Μιχαήλ Κοντογιάννης ①
09:15	Theoretical and Practical Considerations on High Throughput and High Productivity in Liquid Chromatography	Frank David ②
10:15	New HPLC columns technology	Branko Slavica ③
11:00	<i>Διάλειμμα - Καφές</i>	
11:15	New Agilent 1200 Rapid Resolution System - concept and applications including live demonstration	Frank David ② & Branko Slavica ③
12:00	LC-Sample preparation with GERSTEL: NEWS 2006	Pieter Stoutjesdijk ④
12:40	<i>Ελαφρύ Γεύμα</i>	
13:30	New Agilent 6000 series LC/MS portfolio including details on QQQ & QTOF	Michael Zumwalt ⑤
14:15	MS techniques in Food safety	Georges Tsoupras ⑥
15:15	Introducing Agilent OPENLAB (OL), run instruments, acquire data, search, view and retrieve data and archive any kind of Data. The latest innovation from Agilent Technologies for the laboratory	Heiko Linde ⑦
16:00	<i>Επίλογος & Κριτική Σεμιναρίου – Κλήρωση iPod</i>	

① Μιχαήλ Κοντογιάννης, HELLAMCO A.E.

② Frank David, Research institute for Chromatography (RIC), Belgium

③ Branko Slavica, Agilent Technologies Wien, Austria

④ Pieter Stoutjesdijk, GERSTEL, Germany

⑤ Michael Zumwalt, Agilent Technologies, Santa Clara, USA

⑥ Georges Tsoupras, Agilent Technologies, Geneva, Switzerland

⑦ Heiko Linde, Agilent Technologies, Germany



ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συνεργασία του Οίκου GERSTEL & του Ινστιτούτου RIC)

Latest Developments in GC & GC/MSD

ΑΘΗΝΑ, Τρίτη, 31 Οκτωβρίου 2006

Ξενοδοχείο DIVANI CARAVEL

Βασ. Αλεξάνδρου 2, Τηλ.: 210-7207000

ΘΕΣΣΑΛΟΝΙΚΗ, Παρασκευή, 3 Νοεμβρίου 2006

Ξενοδοχείο ΜΑΚΕΔΟΝΙΑ PALACE

Λεωφ. Μ. Αλεξάνδρου 2, Τηλ.: 2310-897197

ΠΡΟΓΡΑΜΜΑ

08:30	<i>Υποδοχή – Καφές</i>	
09:00	Εισαγωγή	Μιχαήλ Κοντογιάννης ①
09:15	Extending the possibilities of GC-MS using microfluid devices	Frank David ②
09:45	Enhanced data analysis using RTL, deconvolution and DRS	Frank David ②
10.15	GC-Sample preparation with GERSTEL: NEWS 2006	Pieter Stoutjesdijk ③
10.55	<i>Διάλειμμα - Καφές</i>	Bernhard Rothweiler ④
11.10	Features and improvements of the new 5975B MSD	Bernhard Rothweiler ④
11.40	Pushing the limits in GC-MS: New applications on the Agilent 5975 MSD in Food and Environmental	Frank David ②
12.25	Faster Method Development with AutoQuant and AutoSIM setup for simultaneous SIM/Scan analyses	Bernhard Rothweiler ④
13:25	<i>Ελαφρύ Γεύμα</i>	
14.15	Optimizing the sensitivity of a HSS/GC/MSD system for trace analysis of VOC's and Solvents	Bernhard Rothweiler ④
14:45	High mass analysis of Brominated Fire Retardants	Bernhard Rothweiler ④
15:15	Introducing Agilent OPENLAB (OL), run instruments, acquire data, search, view and retrieve data and archive any kind of Data. The latest innovation from Agilent Technologies for the laboratory	Heiko Linde ⑤
16:00	<i>Επίλογος & Κριτική Σεμιναρίου – Κλήρωση iPod</i>	

① Μιχαήλ Κοντογιάννης, HELLAMCO A.E.

② Frank David, Research institute for Chromatography (RIC), Belgium

③ Pieter Stoutjesdijk, GERSTEL, Germany

④ Bernhard Rothweiler, Agilent Technologies Waldbronn, Germany

⑤ Heiko Linde, Agilent Technologies, Germany

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Προς: HELLAMCO A.E.

Υπ' όψιν: Κας Κ. Λαγού

Ταχ. Δ/ση: Τ.Θ. 65074, Τ.Κ. 154.10-Ψυχικό, Αθήνα

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Εταιρεία/Φορέας:

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Δ/ση:

T.K.

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ΑΘΗΝΑ: DIVANI CARAVEL, Βασ. Αλεξάνδρου 2 (08.30' – 16.00')

Δευτέρα, 30 Οκτωβρίου 2006: *Discover a New World of LC & LC/MS*

Τρίτη, 31 Οκτωβρίου 2006: *Latest Developments in GC & GC/MS*

ΘΕΣΣΑΛΟΝΙΚΗ: ΜΑΚΕΔΟΝΙΑ PALACE, Λεωφ. Μ. Αλεξάνδρου 2 (08.30' – 16.00')

Πέμπτη, 2 Νοεμβρίου 2006: *Discover a New World of LC & LC/MS*

Παρασκευή, 3 Νοεμβρίου 2006: *Latest Developments in GC & GC/MS*

Υπογραφή: _____

ΠΡΟΣΟΧΗ: Παρακαλούμε για την αποστολή της δήλωσης συμμετοχής σας, **έως την Τετάρτη, 25 Οκτωβρίου 2006, το αργότερο.**



ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συνεργασία του Οίκου GERSTEL & του Ινστιτούτου RIC)

Discover a New World of LC and LC/MS

ΑΘΗΝΑ, Δευτέρα 30 Οκτωβρίου 2006

Ξενοδοχείο DIVANI CARAVEL

Βασ. Αλεξάνδρου 2

ΘΕΣΣΑΛΟΝΙΚΗ, Πέμπτη 2 Νοεμβρίου 2006

Ξενοδοχείο ΜΑΚΕΔΟΝΙΑ PALACE

Λεωφ. Μ. Αλεξάνδρου 2

ABSTRACTS

Theoretical and Practical Considerations on High Throughput and High Productivity in Liquid Chromatography – Frank David, Research institute for Chromatography, Belgium

This presentation gives an overview of the basic concepts of increasing throughput and productivity in HPLC analysis. Both high speed HPLC and high resolution LC are discussed. The analysis time of conventional HPLC methods can be drastically reduced using short columns packed with sub-two micron particles. Increased pressure capabilities and optimized HPLC hardware extend the applicability of fast HPLC.

In addition to speed of analysis, increased resolution is of equal importance. Resolution can be increased by using columns packed with small particles and by increasing column length. Temperature is used as an additional parameter to optimize selectivity and to reduce backpressure. In this way, extremely high plate numbers and peak capacities can be obtained. Several examples from different application fields, including environmental, food and fragrance, pharmaceutical and biochemical analyses, illustrate the principles of high speed and high resolution HPLC.

New HPLC columns technology – Branko Slavica, Agilent Technologies Wien, Austria

Rapid Resolution HT, 1.8 μ m, columns are in high demand today because of their ability to provide outstanding performance in both high throughput and high resolution applications. To maximize performance results with this new column technology, several key column parameters had to be studied and optimized. These include technology for maximizing mechanical stability at higher pressures, optimizing column efficiency for maximum peak capacity. In addition, evaluation of the scalability and selectivity of materials from 1.8 μ m to 5 μ m particle sizes is critical for reliable method transfer and guaranteeing substantial time savings. This presentation will review these key parameters and the impact on the column and its use in the analytical laboratory.

New Agilent 1200 Rapid Resolution System - concept and applications including live demonstration – Frank David & Branko Slavica

A live demonstration will be given of a typical application showing how sample throughput can be increased in liquid chromatography. The application shows the analysis of furocoumarins. These compounds can be present in natural essences, especially in extracts from citrus fruits and these essences are used in cosmetic products. The EU Commission Directive 95/34/EC of July 10, 1995 has specified maximum levels for certain compounds such as 8-methoxy-psoralen and 5-methoxypsoralen, since these compounds are photomutagenic or photocarcinogenic. The

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analysis of these compounds, together with other solutes can be performed using classical HPLC using 10-25 cm columns packed with 3.5- 5 micron particles. Typical analysis times are in the order of 10-15 min. In this demonstration, the classical HPLC method is translated into a fast LC method using a short column packed with sub-two micron particles. The analysis can be reduced by a factor of three without impairing resolution. Taking advantage of the relatively flat Van Deemter plot, the analysis time can further be reduced using increased mobile phase velocity. The resulting resolution and spectral quality will be demonstrated.

New Agilent 6000 series LCMS portfolio including details on QQQ and QTOF – John Chakel, Agilent Technologies Santa Clara, US

This will cover the newly introduced mass spectrometry portfolio and have specific details on the new Agilent 6410 QQQ and the Agilent 6510 QTOF tandem MS systems, the new Agilent 6100 series single quadrupole system, and the updated 6210 TOF and 6300 series ion trap MS systems. These systems were developed with the usual Agilent engineering excellence resulting in excellent reliability, performance and ease-of-use for "All Performance, All the Time".

MS techniques in Food safety – Georges Tsoupras, Agilent Technologies Geneva, Switzerland

Food safety is a main concern worldwide; Chemicals , Additives , Pesticides , Veterinary drugs for animals disease control or Growth promoters, are a small list of what we should monitor in a Modern Food analytical laboratory. Mass spectrometry is the analytical technique of choice, thanks to his high sensitivity and specificity this offers and required to meet new regulation requirements. In this presentation we will cover some applications of the newly introduced Agilent Mass spectrometry portfolio ; from GC-MS to LC-MS applications with SQ, QQQ or the LC-MS TOF utility for unknown identifications .We will present also the ICP-MS applications for elemental analysis and speciation in food area .

Introducing Agilent OL, run instruments, acquire data, search, view and retrieve data and archive any kind of Data. The latest innovation from Agilent Technologies for the laboratory. – Heiko Linde

Agilent OL is a web-based electronic library that collects, organizes, indexes, stores, archives and shares electronic records - from raw analytical instrument data and reports to compliance records, MS-Office documents, PDF documents, molecular drawings, pictures and video. Agilent OL automatically extracts searchable metadata from each of the files, and provides powerful search capabilities and embedded viewers for many file types Like MS and CDS Data.

The Agilent OL framework can be extended with a networked chromatography data acquisition system (CDS), making it the world's first real web based CDS.

Agilent OL will provide you with a strategy for integrating instrumentation, local data systems, and laboratory electronic information into a fully protected, searchable, and archivable system.

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ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συνεργασία του Οίκου GERSTEL & του Ινστιτούτου RIC)

Latest Developments in GC & GC/MSD

ΑΘΗΝΑ, Τρίτη, 31 Οκτωβρίου 2006

Ξενοδοχείο DIVANI CARAVEL

Βασ. Αλεξάνδρου 2

ΘΕΣΣΑΛΟΝΙΚΗ, Παρασκευή, 3 Νοεμβρίου 2006

Ξενοδοχείο ΜΑΚΕΔΟΝΙΑ PALACE

Λεωφ. Μ. Αλεξάνδρου 2

ABSTRACTS

Features and improvements of the new 5975B MSD – Bernhard Rothweiler, Agilent Technologies Waldbronn, Germany

One year after the introduction of the Agilent 5975 inert MSD, we are introducing the B series. It offers more choices and capabilities than what we had last year. You now have more flexibility in matching your autosampler, GC, and MS needs than ever before.

This presentation outlines the new hardware and software features of the 5975B MSD.

Pushing the limits in GC-MS: New applications on the Agilent 5975 MSD in Food and Environmental Analysis - Frank David, Research institute for Chromatography, Belgium

In this presentation the extended capabilities of the new Agilent 5975 MSD are demonstrated by several applications in food, consumer product and environmental analysis. Special focus is on simultaneous SCAN/SIM mode, high temperature GC-MS and chemical ionization.

The advantages of RTL are discussed and the combination of the 5975 MSD with different sample introduction techniques (large volume injection, headspace, thermal desorption) is illustrated.

Optimizing the sensitivity of a HSS/GC/MSD system for trace analysis of VOC's and Solvents - Bernhard Rothweiler, Agilent Technologies Waldbronn, Germany

To get the necessary sensitivity for trace analyses of Volatile Organic compounds (VOC) in drinking water samples, Purge & Trap sample preparation is mostly required (US EPA methods). This technique requires tedious sample handling and automation next to problems with carry over and foaming of samples.

This presentation shows how a Headspace GC/MSD system can be optimized to satisfy even the most critical regulation requirements for the analysis of VOC's and solvents in all kind of drinking water samples for Europe.

Faster Method development with AutoQuant and AutoSIM setup for simultaneous SIM/Scan analyses– Bernhard Rothweiler, Agilent Technologies Waldbronn, Germany

To develop a GC/MSD method including quantification and also selected ion monitoring for a large number of compounds could be very time consuming.

New hardware and software developments of the GC/MSD system will enhance this process quite substantially. Tools like "AutoQuant" and "AutoSIM" setup will be discussed in this presentation.

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After performing a normal Scan analysis, a complete live method development will be demonstrated showing these two features. This finally results in a Scan/SIM method ready for quantification and qualification for all included compounds.

If additional Retention Time Locking (RTL) is used during the method setup, also unknown compounds can be screened (qualified) and even semi quantified afterwards.

Extending the possibilities of GC-MS using microfluid devices – Frank David, Research institute for Chromatography, Belgium

Recently a series of gas phase microfluid devices have been introduced. These devices are based on diffusion-bonded plate technology and include column connectors, effluent splitters, an MS no-vent system (QuickSwap) and a Deans switching device. The microfluid devices have very low internal volumes and no unpurged zones or porous material, that could lead to peak tailing. The devices also have a low thermal mass and can be used in a very broad temperature range. Therefore these microfluid devices offer very interesting possibilities to optimize capillary GC applications.

In this presentation, a number of applications demonstrate how these devices can be used. First of all some applications demonstrate that the installation of a QuickSwap MS no-vent device does not impair the performance of typical GC applications as illustrated by the analysis of allergens in fragrances, the analysis of organotins compounds and higher molecular weight priority pollutants.

The QuickSwap MS no-vent device also allows backflushing of uninteresting solutes eluting at the end of the analytical run, thereby reducing total analysis time and column and detector (MS source) contamination. This is demonstrated by the analysis of contaminants in environmental and food extracts.

Finally, also the possibilities of the microfluid Deans switching device are demonstrated.

High mass analysis of Brominated Fire Retardants – Bernhard Rothweiler, Agilent Technologies Waldbronn, Germany

Polybrominated Diphenyl Ether's (PBDE's) are used as "additives" for paints, textiles, electrical & electronic equipment, plastics, etc. They are not "bound" in the different materials and therefore "escape" easily into the environment. Destruction of the PBDE's can make very toxic compounds like brominated dioxins or furans. Meanwhile, PBDE's have been found throughout the ecosphere.

The 5975B MSD offers the right tools and features for the challenging analysis of this high molecular weight compounds in plastics and environmental samples.

Enhanced data analysis using RTL, deconvolution and DRS – Frank David, Research institute for Chromatography, Belgium

Recently new tools have been introduced to increase productivity in GC-MS data analysis. In this presentation an overview will be given of these new tools, including the use of retention time locking, automated spectral deconvolution and deconvolution reporting software (DRS) that combines Chemstation quantification with deconvolution.

Also some add-on tools for chromatogram and spectral comparison will be demonstrated and discussed.



ΕΝΗΜΕΡΩΤΙΚΟ – ΕΠΙΣΤΗΜΟΝΙΚΟ ΣΕΜΙΝΑΡΙΟ

Agilent Technologies

(Με την συνεργασία του Οίκου GERSTEL & του Ινστιτούτου RIC)

ΑΘΗΝΑ

30 & 31 Οκτωβρίου 2006 (08.30'-16.00')

Ξενοδοχείο DIVANI CARAVEL

Βασ. Αλεξάνδρου 2

ΘΕΣΣΑΛΟΝΙΚΗ

2 & 3 Νοεμβρίου 2006 (08.30'-16.00')

Ξενοδοχείο ΜΑΚΕΔΟΝΙΑ PALACE

Λεωφ. Μ. Αλεξάνδρου 2

CURRICULUM VITAE

Michael Zumwalt received his Ph.D. from the Department of Physics of the University of Arizona in 1995, under Professor Donald Huffman's guidance. Michael's graduate research involved mass spectrometry as a technique for analyzing fullerenes, which were the first to be produced by Huffman. After graduation, followed by four years of working in a forensics laboratory, and then as an Application Chemist for another major mass spectrometry manufacturer, Michael joined Agilent at the end of 1999, as a Product Support Engineer for the LC/MSD Trap Product Family. After five years in this position he recently started his new role as an LCMS Marketing Specialist for both environmental and forensics applications.

Bernhard Rothweiler joined Hewlett-Packard in 1978 for development and manufacturing of packed GC columns. Later on, he was responsible for all GC analyzers. During the last 15 years, he was working as an Applications Chemist for all gas phase applications, mainly GC/MS but also all sample preparation techniques like HSS, P&T and TD. Within this time he also did many customer seminars, posters and scientific presentations throughout Europe.

Dr. Frank David received his Ph.D. degree in 1986 at the Laboratory of Organic Chemistry of the University of Gent under the direction of Prof. Dr. M. Verzele. Since October 1986, Frank David is R&D manager at the Research Institute for Chromatography (RIC) in Kortrijk under the direction of Prof. Dr. Pat Sandra. Frank David is author of more than 100 scientific papers in different areas of separation science. His expertise includes capillary gas chromatography, supercritical fluid chromatography (SFC), GC-mass spectroscopy (GC-MS), GC-atomic emission detection (GC-AED), liquid chromatography (HPLC), liquid chromatography-mass spectroscopy (LC-MS), multidimensional chromatography (GC-GC, GCxGC, LC-GC) and miniaturisation and automation of sample preparation. Frank David is also consultant for instrument manufacturers and for industrial laboratories in environmental, petrochemical, food, pharmaceutical and chemical industries. In this function he has a long experience in theoretical and practical training courses. Since September 2004, Frank David is also visiting professor at the Pfizer Analytical Research Center of the University of Gent.

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Branko Slavica has a Master of Chemical Engineering Sciences. He has spent some time doing research for a Faculty of Chemical Engineering; Department of Microbiological Processes & Applied Chemistry; Laboratory for Chemistry & Technology of Pharmaceutical Products, University of Novi Sad/Yugoslavia. In 1989 he joined Hewlett Packard as Sales Representative for Yugoslavia, and since 1991. he started to work for Hewlett-Packard as European Sales Support Engineer for GC. In June 1996 he became head of European Technical support for Columns and Supplies at Agilent Technologies. From 2001 he was European Sales Development Manager for Columns & Supplies at Agilent Technologies GmbH, Vienna/Austria and since 2005 he is EMEA_IDO Sales Development Manager.

Georges Tsoupras is currently a Mass Spectrometry Product specialist in Agilent Technologies. He has worked (1987-2003) as an Application Chemist In the European Analytical Laboratory of HP/Agilent Technologies, Inc. in Geneva. He was responsible for LC-MS and ICP-MS applications in Food, Toxicology and Pharmaceuticals. Earlier, Georges was a scientific research fellow for the Swiss National Scientific Center and worked at Neuchatel University in Natural product Chemistry (1982-1987); isolation and structure elucidation of Bioactive compounds. He was Mass Spectrometry specialist during this period in Neuchatel University and worked at the earlier stages with the QQQ development. Georges received a BS degree in Chemistry from the University of Patras-Greece and a Ph.D (Doctorat d' Etat) in Natural Product Chemistry from the University in Strasbourg, where he was part of research group developing Ionization techniques for non volatiles compounds.

Heiko Linde has a Master in chemistry and instrumental analytics. He has spent some time doing validation for a Pharma company. After that he worked for 6 years at Thermo Electron as Fields Service Eng. For GC, GC/MS Product management CDS. Later on he worked 7 years as network data specialist in Sales for LIMS, CDS and Data management and archiving solutions. In parallel doing also Support, installations & trainings. 2004 he moved over to Scientific Software International (SSI) since 2005 now Agilent Technologies as a specialist for data management and archiving solutions. He has a working knowledge of 21 CFR Part 11, GxP and IT related issues for the pharmaceutical industry as well as for Chemical industry.