

2 **20th International Symposium on Separation Sciences**
3 **(ISSS 2014)**

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7 This issue of *Chromatographia* contains a set of ten papers
8 selected from the 20th International Symposium on Sepa-
9 ration Sciences (ISSS) held in Prague from August 30 to
10 September 2, 2014. The International Symposia on Sepa-
11 ration Sciences have been organized regularly once a year
12 since 1990 in one of the member countries of the Central
13 European Group of Separation Sciences (CEGSS). The ori-
14 gins of CEGSS and the ISSS symposia date back to 1989,
15 when the series of “Danube Chromatographic Symposia”
16 was terminated but it was soon apparent that there was a
17 need for separation scientists from Central Europe to meet
18 and exchange knowledge and ideas. This was the reason
19 for the creation of the CEGSS, as an umbrella organization
20 of the national chromatographic societies from this region
21 (currently Austria, Bosnia and Herzegovina, Croatia, Czech
22 Republic, Hungary, Italy, Poland, Romania, Slovakia, Slo-
23 venia and Ukraine) to coordinate and organize every year
24 a symposium in one of the member countries. The series
25 of International Symposia on Separation Sciences (ISSS),
26 starting in 1990, have become the premier meetings in
27 separation techniques within Central Europe, but also an
28 international forum for gathering specialists in all types of
29 separation techniques.

A1 Published in the topical collection *20th International Symposium*
A2 *on Separation Sciences* in Prague with guest editors Aleš Horna
A3 and Pavel Jandera.

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The jubilee 20th International Symposium on Separation
Sciences, ISSS 2014, was held in Prague from August 30
to September 2 2014, under the auspices of the Chroma-
tography and Electrophoresis Group of the Czech Chemi-
cal Society, in cooperation with RADANAL Co. It was
the second ISSS meeting in the Czech Republic, the first
being the 11th ISSS in Pardubice in 2005. The meeting was
attended by 200 participants from 37 countries. The wel-
coming addresses were made by the Symposium Chairmen,
Prof. Horna and Prof. Jandera, Prof. Boguslaw Buszewski,
the President of CEGSS and Dr. Václav Kašička, the Chair-
man of the Group for Chromatography and Electropho-
resis of the Czech Chemical Society. At the opening cer-
emony, Prof. Buszewski awarded Prof. Tomislav Bolanča
a medal for the promotion of separation sciences through
the CEGSS. Prof. Pavel Jandera was awarded a medal by
the Polish Chemical Society for scientific cooperation with
Polish separation scientists.

The scientific program of the 20th ISSS was focused
on recent advances in all aspects of separation science.
Advances in column technologies were discussed, with a
focus on micro- and nano-particle, core-shell and mono-
lithic formats. Attention was paid to new stationary phase
chemistry for HILIC and chiral separations, to molecu-
larly imprinted media and stationary phases providing
dual retention mechanisms. Emphasis was placed on novel
applications especially in food, clinical, environmental and
industrial analysis. Plenary lectures were given by Prof.
Wolfgang Lindner on enantiomer selectivity, Prof. Fran-
tisek Švec on rapid TLC-MALDI separations on mono-
lithic thin layers, Prof. Pat Sandra on state-of-the-art GC-
MS and LC-MS in metabolite profiling of kidney diseases
and Prof. Peter Shoemakers on new tools for comprehen-
sive two-dimensional LC × LC. 34 keynote lectures were
presented by internationally recognized scientists in seven

65 sessions. Six lectures were presented in a young scientist's
66 competition session. The presentation by Dr. Sinead Cur-
67 rivan (University of Pardubice), "Towards the production of
68 highly efficient polymeric monolithic columns for HILIC
69 separations of small molecules", won the award offered by
70 the Dean of the Faculty of Chemical Technology of Uni-
71 versity of Pardubice. 138 posters were displayed. Six of
72 the best posters were selected of which the poster "Benefits
73 of immunomagnetic separations for epitope identification
74 in clinically important protein antigens", by Dr. Barbora
75 Jankovičová (again from the University of Pardubice), won
76 the prize of the Group for Chromatography and Electro-
77 phoresis of the Czech Chemical Society.

78 The symposium venue, Hotel DAP, located very close
79 to the center of Prague, offered a pleasant environment and
80 typical Czech catering and beer. The social program, organ-
81 ized by RADANAL Co., included the symposium dinner, a
82 boat trip on the Vltava (Moldava) river and a Prague sight-
83 seeing walk.

84 The organizers thank the companies that sponsored the
85 20th ISSS symposium. Among them were: Waters, Shi-
86 madzu, Thermo Scientific, Molnár Institute, INGOS, Data-
87 Apex, IonBench, Sigma Aldrich, Kuba Libri, Danone, Tara-
88 pacca and the University of Pardubice, Faculty of Chemical
89 Technology. We would like to express our thanks to the ple-
90 nary and keynote lecturers and to all participants for com-
91 ing and contributing to the high quality of the symposium.
92 Our especial thanks go to the members of the local organiz-
93 ing committee, Dr. Václav Kašička, Prof. Ivan Mikšík and
94 Prof. Eva Tesařová, for their assistance in preparation and
95 coordination of the conference and especially to Štěpánka
96 Voborníková, Dr. Katka Vyňuchalová, and Citlalli Garnica,
97 who took the main administrative burden. Without their con-
98 tinuing efforts the 20th ISSS would not have taken place.

99 Aleš Horna, Chairman and Pavel Jandera, Co-Chairman
100 of 20th ISSS.

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Assoc. Professor Aleš Horna
has been involved in chromatog-
raphy and mass spectrometry
for organic synthesis control,
residual monomers, spot analy-
sis, and explosives. Aleš Horna
studied organic chemistry at the
University of Pardubice in the
Czech Republic. In 1989 he was
internationally recognized as an
expert in explosives detection
and was invited to help in the
Lockerbie disaster investigation.
Since 1997 he is involved in
nutrition and clinical diagnos-
tics research. He is founder of

118 the Institute of Nutrition and Diagnostics in Pardubice and a chairman
119 of INDC conferences. He has about 60 publications in the Web of Sci-
120 ence. His h-index is: 19.



Pavel Jandera graduated at
the Technical University of Par-
dubice, Czechoslovakia, in
1967. He got his CSc. (PhD)
degree in 1977 and his DrSc.
degree in 1989. Since 1992 he
has hold the position of profes-
sor of Analytical Chemistry at
the University of Pardubice,
Czech Republic. He spent 6
months in Paris (1980) and 12
months in Knoxville, Tennes-
see, USA (1990-91) with the
late Prof. Georges Guiochon.
His research activities are
focused on chromatography,
mainly retention mechanisms, role of the stationary and mobile
phases, and programmed elution in HPLC, HILIC and two-dimen-
sional comprehensive chromatography. He was the principal investi-
gator of several Czech and international research projects. He is co-
author of four books, 28 chapters in monographs and over 250
original and review scientific papers in impacted journals, cited more
than 6000 times, his h-index is 43. He is member of editorial boards
of Journal of Chromatography A, Journal of Separation Science, Ana-
lytical Letters, Chromatography, Contemporary Chromatography and
recipient of several medals and acknowledgments; among them the
prestigious UK Chromatographic Society AJP Martin Medal awarded
in 2015. In 2011, he chaired the 11th International Symposium on
Separation Sciences in Pardubice, Czech Republic.

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