



# SLOVENSKÁ VÁKUOVÁ SPOLOČNOSŤ

Slovak Vacuum Society

Report from Slovak Vacuum Society (SVS) about Technical Training Course 14 (TTC) realized in Hotel Patria, Strbske Pleso, Slovakia.

The TTC was carried out in Strbske Pleso, November 9 – 11, 2012 in hotel Patria as a parallel event to School of Vacuum Technology SVT2012.

The total number of the participants for the School of Vacuum Technology was 40 persons.

The training was realized according to the program, please find it enclosed (pdf).

The participants of the TTC were 17 persons in total (Vesely, Dubravcova and Vincze not counted), mainly students of the universities from Bratislava and Zilina, but also students from Institutes of the Slovak Academy of Sciences, technicians from an Institute of Czech Academy of Sciences and also from a company in Slovakia.

Financial part, the support of 2 500 € from IUVSTA was equally used for the 13 supported students. For 13 students 230 € was equally used to reduce the fee for the whole event (this does include everything, room and board, conference fee) and only 80 € was collected from them. Except the IUVSTA contribution of 2 500 € an additional 490 € from sponsors were used for student support.

The students had also the possibility to join the School of Vacuum Technology, listen to the invited contributions. Except this, they had a possibility to discuss with two sponsors present (Specion and Jeol) and finally after a short exam followed after the training they got a TTC course certificate.

A. Vincze

Bratislava, March 25, 2013

Enclosures

TTC course program

Attendance list of the participants

Confirmations of participants

**Program of the School of Vacuum Technology 2012 and of Vacuum Technique (VT) Course  
with International Union for Vacuum Science, Technique and Application (IUVSTA) support**

**Thursday 8/11/2012**

12.00 – 14.00 Lunch  
13.00 – 16.00 Registration

14.00 – 14.10, Opening by P. Ballo for FEI STU and M. Veselý for SVS, VT Course organisation

**Oral Contributions, SVT 2012**

14.10 – 14.45, A. Kromka, P1  
14.45 – 15.05, M. Marton  
15.05 – 15.25, M. Kotlár  
15.25 – 15:45, P. Michniak

**VT Course**

14.45 – 15.45  
Low pressure physics, gas kinetic theory

**15.45 – 16.10 Refreshment**

16.10 – 16.45, D. Seyringer, P2  
16.45 – 17.05, D. Pudiš  
17.05 – 17.25, I. Kubicová  
17.25-17.55 M. Vojs

16.45 – 17.45  
Low pressure production, vacuum pump division,  
pumping speed, pumping characteristics,  
pressure limit, compression ratio

**18.00 - 19.30 Dinner**

19.30 - 20.30, Poster Session, J. Bruncko, A. Staňová, J. Šmíd, A. Vincze,

**Friday 9/11/2012**

9.00 – 9.35 J. Novák, P3  
9.35 – 9.55, B. Hudec  
9.55 – 10.15 T. Ščepka  
10.15 – 10.35 M. Precner

9.35 – 10.35  
Vacuum pumps 1

**10.35 – 11.00 Refreshment**

11.00 – 11.35 F. Uherek, P4  
11.35 – 11.55, D. Haško  
11.55 – 12.15, Ľ. Vančo  
12.15 – 12.35, F. Guemann

11.35 – 12.35  
Vacuum pumps 2

**12.35 – 14.00 Lunch**

14.00 – 14.50  
Low pressure measurement, Vacuum gauges  
14.50 – 15.10 Refreshment  
15.10 – 16.00  
Ionization vacuum gauges, Partial pressure  
measurements, Leak detection  
16.00 – 16.50  
Materials for vacuum applications  
16.50 – 17.30 Discussion

**Banquet 18.00**

## **Saturday 10/11/2012**

9.00 – 9.35 P. Šutta, P5  
9.35 – 9.55 M. Blaho  
9.55 – 10.15 J. Škriniarová  
10.15 – 10.40 Refreshment  
10.40 – 11.15 R. Redhammer, P6  
11.15 – 11.45 K. Okayama, JEOL  
11.45 – 12.00, Discussion

9.35 – 10.15  
Clean Rooms

## **12.00 – 13.30 Lunch**

14.00 – 14.50  
Analytical applications using vacuum – SIMS as  
an example  
14.50 – 15.10 Refreshment  
15.10 – 16.00  
Technological applications using vacuum – PLD as  
an example  
16.00 – 16.30 Discussion

## **Sunday 11/11/2012**

9.00 – 10.00 Discussion and exam for VT Course participants  
Delivery of VT Course Certificates in the name of SVS and IUVESTA  
10.30 Final remarks, M. Veselý



Prezenčná listina pre Kurz vakúovej techniky v dňoch 8. – 11. novembra 2012  
Hotel Patria, Štrbské Pleso

	Meno	Priezvisko	Inštitúcia	e-mail	Podpis
1.	MIROSLAV	BEHŮL	FEI STU	m.behul@gmail.com	Behul
2.	Mario	Hodas	FEI STU	xhodas@stuba.sk	HODAS
3.	Václav	Václav	FEI STU	xvavco@stuba.sk	Václav
4.	Dominik	Másiar	FEI STU	masiar.dominik@gmail.com	Másiar
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6.	FILIP	GUCMANN	ELU SAV	FILIP.GUCMANN@STUBA.SK	Gucmann
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10.	JAN	VHRÍK	FEI STU	ZAN.VHRIK.MT@GMAIL.COM	Vhrík
11.	ANDREA	STANOVA	PMF UK	stanova@fns.uniba.sk	Stanova
12.	Jaroslav	BRUNCKO	MLC Bratislava	bruncko@ic.sk	Bruncko
13.	Marián	Precner	ELU SAV	marian.precner@savba.sk	Precner
14.	Michal	Blaho	ELU SAV	michal.blaho@savba.sk	Blaho
15.	Boris	Hudec	ELU SAV	boris.hudec@savba.sk	Hudec
16.	PAVOL	MICHNIAK	FEI STU	pavol.michniak@stuba.sk	Michniak
17.	ANDREJ	VINCZE	MLC Bratislava	vincze@ic.sk	Vincze

18.	Mário	Kotlar	Foi STU		Mário, Kotlar @ Stuba. sk	Vodny
19.	Marian	VESELY	FET STU		Marian. Vesely @ Stuba. sk	Vesely
20.	Vida	Dubravcova	SUS		Vida, dubravcova @ Stuba. sk	Plat
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## C O N F I R M A T I O N

I confirm herewith to have received a grant from International Union for Vacuum Science, Technique and Applications (IUVSTA) for participation on IUVSTA Technical Training Course #14 “Vacuum and Progressive Materials”.

The course was held as a parallel event to international scientific workshop 15<sup>th</sup> School of Vacuum Technology in Hotel Patria at Štrbské Pleso, Slovakia in the time period November 8 – 11, 2012.



Mária Kotlár  
PhD. student

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Tomáš Ščepka  
PhD. student

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Boris Hudec  
PhD. student



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Dominik Mäsiar  
student



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Michal Blaho  
PhD. student

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Miroslav Behúl  
student

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Pavol Michniak  
PhD. student

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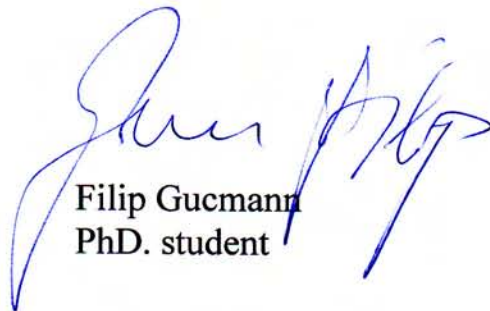


Ján Uhrík  
PhD. student

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Filip Gučmann  
PhD. student

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Mário Hodas  
student

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Marián Precner  
PhD. student



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Andrea Staňová  
PhD. student

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Ľubomír Vančo  
PhD. student