

SECONDDANNOUNCEMENT &LATEPAPERSCALL

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UniversityofPardubice

havethepleasureininvitingyoutothe

12thCONFERENCEONMICROWAVETECHNIQUES

COMITE2003



September23-24,2003
CulturalCentre(KDDukla)
Pardubice,CzechRepublic

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CONFERENCE TOPICS

1. Microwave materials
2. Passive and active microwave circuits
3. Microwave acoustics and optoelectronics
4. Antennas and propagation
5. Simulation, modeling and CAD of microwave devices
6. Microwave measurements
7. Electromagnetic compatibility and packaging
8. Radars and remote sensing
9. Communications and navigation
10. Mobile communications
11. Industrial and biomedical applications
12. Signal processing in radar and communications

THE VENUE

The Conference will be held in the Cultural Centre Dukla (KD Dukla) at Pardubice, the Czech Republic. **Access from the railway station:** bus No: 10 to the "Dukla, KD" station (for instance see the map on <http://www.dpmp.cz/> Jízdní řády, Plánek sítě). The organisers could provide you with a situation map at the response on your application.

CONTRIBUTIONS AND LATE PAPERS

The Program Committee has selected the papers for the oral and poster sessions in the above listed topics. The **LATE PAPERS** should be submitted before **August 1, 2003** to the Secretary of the Conference. For Instructions for paper preparation see below. The authors will be informed about acceptance of the late papers before **AUGUST 15, 2003**. The official language of the conference (including the Conference Proceedings) is English.

JOINT ACTIVITIES

WORKSHOP

The Workshop **CAD/CAE 2003**, traditionally held at the Czech Technical University in Prague, is organized in parallel with the conference. The following Workshop topics of computer-aided design and education are:

1. High frequency, microwave and millimeter wave technology
2. Antennas and propagation
3. Communications
4. Related problems of electromagnetic field and circuit theory.

The contributors intending to take part in the WORKSHOP are kindly requested to send the registration form to the Secretary of the Conference before **JULY 31, 2003**.

GRANTS FORUM

In this section Universities and further R&D organisations refer on their activities, results and experience with national and EU born grants and projects.

CONFERENCE RECEPTION

The CONFERENCE RECEPTION will be held at historical rooms of the Pardubice Castle on September 23, 2003. The conference organizers and sponsors invite all the conference participants and guests.

CONFERENCE FEE
Conference fee in CZK (1 EUR = 32 CZK)

Participants	Early*	Late**	In cash***
Members of: IEEE: AP, MTT, ED, CAS, COM Soc. ČES, SRE, SEI	1300,-	1800,-	2500,-
Non-members	1500,-	2000,-	2500,-
Students	400,-		

* received by bank transfer before August 1, 2003

** received by bank transfer before September 15, 2003

*** settled in cash at the registration desk

The conference fee includes:

- a) Participation at all conference sessions
- b) A copy of the conference book of proceedings (except for students)

Method of payment:

Organizers prefer the fee payment by the **bank transfer** to:

Bank: Československá obchodní banka, a.s., branch Pardubice

SWIFT: CEKOCZPPHRK

Account Name: Československá sekce IEEE, Praha

Account No: 271885293

from the Czech Republic please use:

No: 271885293/0300

Const. symbol: 0308, var. symbol: Number of Invoice

Secretary Contact Address:

Mr. Milan Pavel

University of Pardubice

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53210 Pardubice, Czech Republic

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<http://www.mide.cz/rfmw/comite.html>

COMITE2003

Pardubice, September 23-24

CONFERENCE SCHEDULE

	MAIN HALL	ROOM A	ROOM B
Tuesday – September 23, 2003			
13.30–14.50	Plenary session A1		
13.30–13.50	Opening Address		
14.00–14.30	Invited paper 1		
14.30–15.00	Invited paper 2		
15.00–16.30	Posters attractions ¹ CAD presentations ²		
16.30–18.00	Posters	Workshop CAD	Grants Forum
19.30 CONFERENCE RECEPTION – THE PARDUBICE			ASTLE

Wednesday – September 24, 2003			
10.00–12.00		Session A2	Session B2
LUNCH			
13.00–14.40		Session A3	Session B3
15.00–16.40		Session A4	Session B4
17.00	Closing Session		

Notes:

- 1 five-minute summaries of posters
- 2 five-minute presentations of CAD Workshop Contributions

PRELIMINARY PROGRAM

Tuesday–September 23, 2003.

Plenary session A1: Invited papers	MAIN HALL
Section chair: Milos Mazanek, CTU Prague	Time: 14:00–15:00

Vrba J.	MEDICAL APPLICATION OF MICROWAVES
Slezák L.	PRESENT STATUS AND FUTURE TRENDS OF MULTI POSITION RADAR SYSTEMS

Wednesday–September 24, 2003.

Session A2: Wave propagation	Room A
Section chair: Pavel Pechac, CTU Prague	Time: 10:00–12:00
Grábner, M., Kvičera, V.	REFRACTIVITY DEPENDENCE ON WEATHER CONDITIONS
Fišer, O.	ON METHODSDISTINGUISHING DROP SIZEDISTRIBUTION TYPE FOR IMPROVED ESTIMATION OF RADIO WAVE ATTENUATION DUE TO RAIN
Lédl, P., Pechač, P., Mazánek, M.	TREE ATTENUATION MEASUREMENT EXPERIMENT IN MILLIMETER WAVE BAND
Klepal, M., Pechač, P.	SITE-SPECIFIC CHANNEL PARAMETERS PREDICTION FOR MIMO SYSTEMS
Mikas, F., Klepal, M., Pechač, P.	ESTIMATION OF BUILDING DIELECTRIC PROPERTIES FROM WIDEBAND MEASUREMENT

Session B2: Medical applications	Room B
Section chair: Jan Vrba, CTU Prague	Time: 10:00–12:00
Cvek, J., Vrba, J.	EVANESCENT WAVEGUIDE APPLICATOR FOR MICROWAVE THERMOTHERAPY IN ONCOLOGY
Herza, J., Vrba, J.	REGIONAL APPLICATOR FOR MICROWAVE THERMOTHERAPY
Chovanec, R., Vrba, J.	NUMERICAL METHODS IN MICROWAVE THERMOTHERAPY
Oppl, L.	NON-DESTRUCTIVE PERMITTIVITY

	MEASUREMENT OF BIOLOGICAL TISSUE
Jelínek, F., Pokorný, J., Šaroch, J.	EXPERIMENTAL INVESTIGATION OF ELECTROMAGNETIC ACTIVITY OF LIVING CELLS AT MILLIMETER WAVES

Session A3: Antennas	Room A
Section chair: Schejbal, TU Pardubice	Time: 13:00–14:40
Bártík, H.	CORRECTION METHOD FOR REDUCTION OF AMPLITUDE AND PHASE ERRORS OF COAXIAL
Goňa S.	IMPLEMENTATION OF NEAR FIELD CYLINDRICAL SCANNER
Otevřel, V., Raida, Z.	COMPLEX OPTIMIZATION OF YAGI ANTENNA USING POLYTOPE ALGORITHMS
Hradecký, Z., Mazánek, M.	ULTRA BROAD BAND HORN ANTENNA
Polívka, M., Hudec, P., Mazánek, M.	DUAL BAND QUARTER WAVELENGTH PLANAR ANTENNA FOR SIGNAL DETECTION IN GSM 900/DCS 1800 BANDS

Session B3: Microwave circuits	Room B
Section chair: Karel Hoffmann, CTU Prague	Time: 13:00–14:40

Kupčák, D., Mitáš, L.	WAVEGUIDE PHASE SHIFTER WITH DIELECTRIC PLATE
Tomáška, M., Vážný, R., Krnáč, M.	A CLASSER F POWER AMPLIFIER DESIGN IN STANDARD DIGITAL 0.45 μM CMOS TECHNOLOGY FOR MOBILE COMMUNICATION
Morawski, T., Zborowska, J.	BROAD-BAND MICROWAVE ANALOG PHASE SHIFTERS
Antoniuk, J., Salski, B., Gwarek, W. K.	SLOTTED WAVEGUIDE SASE EXCITATION SYSTEMS OF MICROWAVE OVENS
Sokol, V., Hoffmann, K., Vajtr, J.	A NOVEL 3-D ULTRA WIDE BAND BALUN

Session A4: Microwave systems	Room A
Section chair: Pavel Bezousek, TU Pardubice	Time: 15:00–16:40

Kubík, M., Šedivý, P.	MODERNIZATION OF 3D RADAR ST68 USING SIGNAL PROCESSING
Bilik, V., Bezek, .	DEVELOPMENT OF 2.45-GHZ HIGH-POWER

	COAXIALSIX-PORTREFLECTOMETERFOR INDUSTRIALAPPLICATIONS
Geck,B.,Ponce,E.M.	ARADARBASEDHIGHPRECISIONTHICKNESS MEASUREMENTSYSTEMFORDIELECTRIC MATERIALS
Yanovsky,F.J.,Prokopenko,I.G., Ligthart,L.P.	ADAPTIVEALGORITHMSFORWEATHER RADAR

SessionB4:Microwavemeasurements	RoomB
Sectionchair:JanBezsek,STUBratislava	Time:15:00–16:40

Zvánovec,S.,Mikas,F., Hradecký,Z.,Pechač,P., Mazánek,M.	WIDEBANDMEASUREMENTOFINSERTION LOSSOFSHIELDINGMATERIALS
Kopyt,P.,Salski,B., Gwarek,W.K.	RESONATOR-BASEDMETHODFORRESIMULATION OFCOMPLEXPERMITIVITYOFMATERIALS
Künzel,K.Papež,V.,Žáček,J.	THEPROBLEMSOFRFCONDUCTED EMISSIONSMEASUREMENT
Jiříčka,K.,Montebugnoli,S.	DIGITALSPECTROMETERFORRADIO ASTRONOMICALOBSERVATIONS

INSTRUCTIONS FOR PREPARATION OF THE MANUSCRIPT FOR THE PROCEEDINGS (14pt bold)

Principal Author Name*, Co-Author Name, Co-Author Name*** (12pt bold)**

* Affiliation, Complete mailing address (including country), Email (11pt regular text)

** Affiliation, Complete mailing address (including country), Email

*** Affiliation, Complete mailing address (including country), Email

Abstract (11pt italic) - **Maximum five lines single spacing (11pt. bold)**

INTRODUCTION (11pt. bold)

Each paper is limited to a maximum of 4 (four) single-sided pages including text, tables, and figures. Use A4 size paper. Margins: left and right - 2 cm, top and bottom - 3 cm. The header on the first page consists of (see above): Title of the paper (in capital letters); Names of the authors and their affiliations; Short abstract (max. five lines single spacing).

The final size of the Conference Proceedings is A5. Please keep that in mind while using text and graphics signs in figures and graphs.

If you do not deliver in electronic form by E-mail (preferred), send three hard copies (please do not staple) in the quality suitable for printing (camera ready). Please, do not number pages! The page numbers should be pencilled on the top right corner of the rear page.

PAPER PREPARATION

The text should be typed in single column format on one side of the paper, left and right justified. Use single spacing in the body of the text and double spacing between sections.

Font:

Text: Times New Roman. Variable: *Times New Roman italic*. Symbol: TrueType Symbol font. Normal text: 11 pt (regular text). Header/footer: The use of header/footer or footnotes is not recommended. All numerical expressions should be numbered; numbers indicated in parentheses.

The papers should be submitted as a single electronic file in portable document format (.pdf) or Word 97. Make sure that the submitted paper prints correctly to a Postscript printer.

Figure captions should be below the figures; table captions should be above the tables. Paste figures using "Paste special..." and "Picture".

Fig. 1. A figure caption example

DELIVERING YOUR PAPER

The late papers should be submitted to the Secretary of the Conference before **AUGUST 1, 2003**.

References

[1] G. Eason, B. Noble, and I. N. Sneddon "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," *Phil. Trans. Roy. Soc. London*, vol. A247, pp. 529-551, April 1955.

[2] J. Clerk Maxwell, *A Treatise on Electricity and Magnetism*, 3rd ed., vol. 2. Oxford: Clarendon, pp. 68-73, 1892.

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12th Conference on Microwave Techniques COMITE 2003

REGISTRATION FORM

TICK AS APPROPRIATE

Intend to present a late paper

Intend to contribute to the workshop CAD/CAE

Title:..... Firstname:.....

Lastname:.....

Title of the Contribution:.....

Organization:.....

Address:.....

.....

Postcode/zip code:..... Country:.....

Telephone:..... Fax:

E-mail:.....

I call for a situation map

Please return to the Conference Secretary: milan.pavel@upce.cz

Mr. Milan Pavel
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53210 Pardubice
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Further information at: <http://www.mide.cz/rfmw/comite.html>

12th Conference on Microwave Techniques COMITE 2003

HOTEL BOOKING FORM

Organizers offer booking of hotels in Pardubice for participants during the Conference. For reservation please use the Conference Registration Form and complete and return it before **August 31, 2003**. The room will be reserved in your name and you will settle the hotel bill at your departure (all prices without breakfast).

Reserve the following accommodation please during the Conference in my name (Fill in number of rooms please and return to: UNIT, Gorkého 2573, 53002 Pardubice, Czech Republic or by e-mail to: blanka.tomiskova@unit.cz: before August 31, 2003):

Hotel	Price	Sept.22	Sept.23	Sept.24
Pension "Šenk"				
Singleroom	600,-CZK			
Doubleroom (the whole room price)	800,-CZK			
University Campus (Block D)				
Appartments: 2x Doubleroom	310,-CZK			
Appartments: 2x Singleroom	260,-CZK			
Appartments: Doubleroom + Singleroom				
Singleroom	210,-CZK			
Doubleroom (the whole room price)	250,-CZK			
Student appartments 3+1:				
Singleroom	210,-CZK			
Three-bedroom (the one bed price) ¹	180,-CZK			

Note:

1 If you are booking two beds in a three-bedroom fill in please: 2/3.

Date:

Signature: