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Poštovane kolegice i kolege,

IEEE Serbia and Montenegro Section - MTT-S Chapter u saradnji sa Udruženjem za mikrotalasnu tehniku, tehnologije i sisteme organizuje predavanje iz programa *IEEE MTT-S Distinguished Microwave Lecturers*:

## **Towards Greener Smartphones with Microwave Measurements**

Predavač: Prof. Dominique Schreurs, *IEEE Fellow*  
*Katholieke Universiteit Leuven, Belgium*

Vreme: Ponedeljak 02. april 2012. godine u 12:15 h  
Elektronski fakultet, Niš, Sala 2

U prilogu se nalaze kratak sadržaj predavanja i biografija prof. Schreurs.

U nadi da cete imati vremena da posetite ovo interesantno predavanje, srdačno vas pozdravljam.

*Prof. dr Bratislav Milovanović*

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## Towards Greener Smartphones with Microwave Measurements

### ABSTRACT:

Today's smartphone handsets offer a wide range of functions (phone, GPS, Bluetooth, WiFi, .) to customers, although are still perceived as expensive and energy consuming (requiring a daily recharge). The aim of this talk is to show how microwave measurements impact smartphone design. By optimally engineering the type of measurements made before and after design (linear, nonlinear, loadpull, modulation, .), the efficiency of the design process not only increases, but tougher specifications such as smaller form factor and lower energy consumption can be met more easily. This observation is especially valid in the design of green multi-mode wireless radios, due to the delicate balance between energy efficiency and linearity (that is, cross talk between channels).

### SPEAKER INFORMATION:

**Dominique Schreurs** received the M.Sc. degree in electronic engineering and Ph.D. degree from the Katholieke Universiteit (K.U.) Leuven, Belgium. As post-doc fellow, she was visiting scientist with Agilent Technologies (USA), Eidgenössische Technische Hochschule Zürich (Switzerland), and the National Institute of Standards and Technology (USA). She is now associate professor at K.U.Leuven. Her main research interests concern the (non)linear characterization and modelling of microwave devices and circuits, as well as (non)linear hybrid and integrated circuit design for telecommunications and biomedical applications.

Prof. D. Schreurs signed up as IEEE Student Member in 1990, and got elevated to Fellow in Jan. 2012. She serves on the IEEE MTT-S AdCom since 2009, after election by the membership-at-large in 2008. She was vice-chair of the IEEE MTT-S Technical Coordinating Committee in 2009-2010, and is vice-chair of the IEEE MTT-S Education Committee since 2011. She was Chair of the IEEE MTT-S Technical Committee on Microwave Measurements (MTT-11) in 2005-2008, and has been serving on the IEEE MTT-S Speakers Bureau in 2010 and 2011. She is also Associate Editor of the IEEE Microwave and Wireless Components Letters.

Beyond IEEE, Prof. D. Schreurs also serves as Education Chair on the Executive Committee of the ARFTG organization. She was Technical Program Chair of the 2002 Fall ARFTG conference and General Chair of the 2007 Spring ARFTG Conference. She is General Chair of the 2012 Spring ARFTG Conference. In 2002, she was one of the initiators and is now still co-organizer of the successful NVNA Users' Forum, held 3 times/year.

She was also co-chair of the European Microwave Conference in 2008 and initiated the IEEE Women in Microwaves event at the European Microwave Week. She is Associate Editor of the International Journal of Microwave and Wireless Technologies.

Prof. D. Schreurs is reviewer for all IEEE MTT-S journal publications as well as TPRC member of IMS and RWW. She is also reviewer for many MTT-S (co-)sponsored conferences as well as for other IEEE journals and conferences. She has been regularly session chair at conferences, and acted as judge for student competitions.

Prof. D. Schreurs is co-editor of two books, contributor to seven books, and (co-)author of about 100 journal papers and 300 contributions at international conferences.