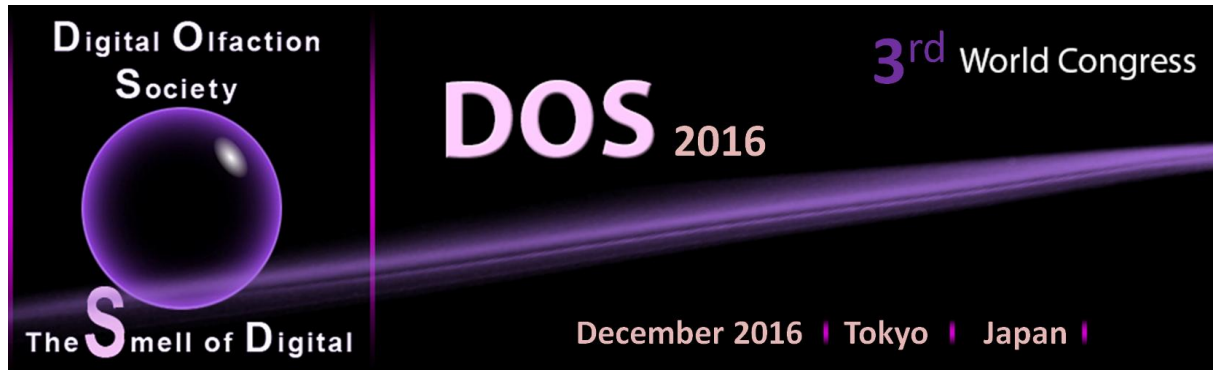


Digital Olfaction Society



3rd World Congress of

Digital Olfaction Society 2016

December 7-8, 2016

Tokyo, Japan

"...The DOS 2016 Challenge is to Record & Digitalize Odors..."

DOS Demonstrations 2016 Program

Scientific Program

3rd World Congress of

Digital Olfaction Society 2016

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*...The idea is to create devices which can capture odors,
turn them into digital data so as to transmit them everywhere in the
world ...*

Dear Colleagues and Friends,

Nowadays, visual and auditory information can be digitally captured, stored and reproduced. We are in touch with that information every day. If another important sense such as olfaction is digitally available, our lifestyle might be changed. Digital Olfaction Society held the first congress on digital olfaction in 2013 in Berlin, Germany and the second congress in Tokyo, Japan in 2014. In both events, we had demonstrations of olfactory displays in addition to oral presentations. People were excited about those demos since they enjoyed mysterious experience. We should continue our effort to have digital olfaction in our daily life. Thus, 3rd Digital Olfaction Society World Congress will be held in Tokyo in December 7-8, 2016.

The aim of the third Digital Olfaction Society World Congress 2016 is to discuss:

- The advances of digital olfaction Research & Development
- The practical applications of digital olfaction
- The impact of these applications on our life and lifestyle

Digital Olfaction Society World Congress 2016 will highlight:

- The interdisciplinary sciences related to Olfaction and Digital olfaction.
- The way in which we can transfer the concrete breakthroughs of Research & Development towards
- The industrial applications concerned by digital olfaction
- How to design and extend the applications of digital smell technologies to everyday life.

Why attend DOS World Congress 2016?

People who are interested in digital olfaction are invited to join this congress to gather the information of recent progress, share it with others and spread the information all over the world. Moreover, participants are encouraged to show demonstrations as well as presentations since we can share the experience of digital olfaction together. The goal of this congress is to establish the international link related to digital olfaction among a variety of fields such as biology, medicine, computer science, electronics, chemistry, mechanical engineering, psychology, art etc.

Who will attend DOS World Congress 2016?

People from industries as well as academics are welcome.

The conference will gather international researchers and academics, R&D departments in link with all the field of digital olfaction, chemistry, mathematics, physics, biochemistry, electronics, engineering, computer science, food and cosmetic industries, olfactory intelligent systems companies, marketing managers, investors and all other stakeholders in olfaction and digital olfaction industries in order to answer these questions.

Among hot topics presented at the Digital Olfaction Society Congress 2016

- Devices to capture odors
- Odors turned into digital data
- Restitution of odors by the transmission of these data
- Artificial olfaction and biologically-inspired models
- New Generation of Sensors & E-nose
- High Smell Technologies as electronic noses, neural circuits in olfactory systems, artificial intelligence olfaction systems
- Biosensor systems, software program, chemical engineering, Telecommunication
- Environmental control
- Biomedical applications in olfactory treatments and diagnosis
- Translational Research in Digital Olfaction
- Cancer & Olfaction: from Dogs to Digital Olfaction
- Robotics & Digital Olfaction
- Olfactory Display & its Applications
- Odor Sensing
- The powerful of Olfactive Markers

Call for Innovations and Demonstrations for Digital Olfaction Society World Congress 2016

The Scientific Committee will invite all industries to present their innovations and products in the digital olfaction world:

- Digital Scent Media: Scented SMS, e-mail, websites, USB flash driver, CD, DVD, scented-print
- Digital olfaction at the service of Human Health: Pattern mimicking the sniffing dogs, e-aromachology, nursing-homes, psychiatric hospitals, smell icons for blind people, olfactory diagnosis
- Formation and Olfactory Memory : Class-rooms, cooking shows
- Olfactory Marketing & Neuromarketing: Olfactive ads, olfactory packaging, interactive website, QR olfacodes, scented-menu....
- Food Industry : Quality & safety control of food products
- Digital Cosmetology : Own fragrance creation on line, smell-E-market
- Olfaction and Jewelery : Revolutionary watches, alarm-radio, scented brooch
- Olfactory Entertainment : Olfactory 3D movie-theaters, home's gadgets, guided-tour in biology & perfumery museums
- Digital scents at the service of Army: Simulating training systems, detection of danger, perfumes of military attack, explosive detection devices
- Interactive scented games : Odorant teddy, video games
- Housekeeping, Coziness & Safety at home
- Olfaction & Auto industry : Olfactive attention assistance for tired driver
- And many others...

Digital Olfaction Society - Network Session

The Network Session is organized during DOS demonstrations session.

The objective of the Network Session is to provide a platform which brings together stakeholders involved in olfaction and digital olfaction, and especially in the field the valorization of digital olfaction applications and products:

- Food industries
- Cosmetics
- Phone companies
- Car Industries
- Others

We look forward to welcoming you in Tokyo for this particular event.

Pr Marvin Edeas

Chairman of the Digital Olfaction Society Committee & Co-Chairman of Scientific Committee



DOS 2016 Scientific & Demonstrations Program

DOS 2016 Demonstrations

The scientific committee invites all academic & industrial teams to present the most innovative appliances, devices, methods, ideas ... in the digital olfaction field.

DOS 2016 Innovation Award

The DOS World Congress will present the most innovative appliances, devices, methods, ideas... that will be judged by a panel of industrial, engineers and members of the press, who delivered the Innovation Award after having had the opportunity to meet and interact with the new equipment.

Program of DOS 2016 Demonstrations

The demonstrations sessions will be divided in two parts:

- Before the practical demonstration, we invite each team to present orally their technology and the process of demonstration (5-10 minutes by team).
- During Demonstrations Session, each team will have a dedicated space to show, demonstrate, explain and discuss about his project.

The list of demonstrations will be available soon.

*You would like to present your innovative devices during
DOS Demonstrations 2016?*

We remind you that you can submit your project and abstract by the online form **until October 6**.

To access to the Demonstrations of DOS 2013 and 2014 World Congress, please visit

www.olfaction-site.com

Digital Olfaction Society 2016

December 7-8, 2016 – Tokyo, Japan

Scientific & Demonstrations Program

Day 1 - December 7, 2016

Congress Chairmen: Pr Marvin Edeas

Part 1: Recent Advances of Digital Olfaction Research & Development Olfaction & Predictive Medicine: Perspectives of Digital Olfaction

Olfaction, Obesity & Skin-Ageing: Strategies to modulate olfactory receptors
Digital Olfactory Nanoarrays for Disease Detection from Breath and Skin
A metric approach to olfactory perceptual space
Odor Processing in Biological and Artificial Olfactory Systems
Nanomechanical gas sensor: Recent Advances & Perspectives
Electronic-nose-based analysis

Short Oral Presentations upon abstracts submission (part 1)

The scientific committee invites the academics and industrials working in the olfaction and digital olfaction fields to present their innovative researches and products.

End of First Day

Digital Olfaction Society Dinner

If you are interested to participate, please register online.

Day 2 - December 8, 2016

Part 2 - Odor Sensing and Odor Visualization

Development of molecular recognition materials for bioinspired odor cluster sensing
Biochemical gas sensor with fiber-optic fluorometry for odorless formaldehyde vapor
Odor visualization by multispectral fluorescence imaging and odor feature value analysis
“Scent camera” for real-time imaging of breath (body) ethanol after alcohol drinking

Short Oral Presentations upon abstracts submission (part 2)

Part 3 – Olfactory Display

Novel powder based olfactory display
Programmable, wearable, multi-fragrance olfactory display
Study of wearable olfactory display using surface acoustic wave device
Application of starbons on olfactory display
Reducing the trailing tail of vortex rings by partial scent filling to improve localization performance of scent delivery

Short Oral Presentations upon abstracts submission (part 3)

Part IV – Olfactory Display & its Applications

Relationship between scent effects and video content with emotional properties
Influence of odors on the users' evaluation of industrial products
Difference of olfactory detection between measuring methods by olfactory display using pulse ejection

Short Oral Presentations upon abstracts submission (part 4)

Digital Olfaction Displaying & Demonstrations

General Presentation of Each Demonstrations

Before the practical demonstration, we invite each team to present orally their technology and the process of demonstration (5-10 minutes by team).

During Demonstrations Session, each team will have a dedicated space to show, demonstrate, explain and discuss about his project.

The list of demonstrations presented will be available soon.

Discussion - Questions / Answers about Digital Olfaction

- *What is most crucial for progressing the field of digital olfaction forward and to keep it as innovative as possible: new advanced materials? New transducers? Algorithms? Product design? Applications?*
- *How lab results in digital olfaction could be translated to commercial production, while passing through all regulatory (tough) roles. An example could be given for the case of the use of digital olfaction as a diagnostic tool for diseases.*

Final Discussion & Concluding Remarks

- *Perspectives & Opportunities*
- *Next strategic step for Digital Olfaction Society*
- *Publication about DOS proceedings in scientific journal or DOS book*

18h30 End of DOS 2016

Program, Registration & Practical Information available on

www.olfaction-site.com