5th International Conference on

Food Oral Processing July 1st – 4th

University of Nottingham



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Programme for Food Oral Processing 2018

Sunday July 1st

- Check in available at the Orchard Hotel from 2pm.
- Conference registration available in the hotel foyer from 5.30pm.
- A buffet dinner is available for delegates in the hotel restaurant between 6.30-8.30pm

8pm-9.30pm Welcome reception at The Orchard Hotel, Nottingham – Mezzanine area

Monday July 2nd

8.30am	Conference Opening and Introduction	Dame Jessica Corner, Pro Vice- Chancellor, University of Nottingham	Chair – Ian Fisk
9.00am	Progress and Challenges of Food Oral Processing – Looking Back and Forward	Jianshe Chen, Chair of Food Oral Processing Committee	
9.45am	Flash Posters (3 minutes each): P7 - The Influence of Salivary Metabor Gardner, King's College London Dentity P13 - Saliva esterase activity during with differences, effect of wine composition esters (Maria Angeles Pozo-Bayón Inde la Alimentación (CIAL), CSIC-UAM P25 - How valid is 50 s-1 for measuri Ong, University of Guelph) P32 - Effect of mechanical contrast of heterogeneous liquid and semi-solid Wageningen University & Research) P41 - Instrumental compression test artificial tongue and a hard plate (Kalinstitute, NARO) P48 - The extent of oral processing distribute, NARO) P48 - Measuring baby's oral motor posnacks (Sarah Smith-Simpson, Nestles Sarah Smith-Simpson, Nestles P65 - Role of food oral processing as into the design of healthy and appres SOUCHON, INRA AgroParisTech)	vine oral processing: inter-individual on and impact on wine odorant stituto de Investigación en Ciencias) Ing viscosity of liquids? (Jane Jun Xin on sensory perception of foods (Marco Santagiuliana, of soft food gels between a soft oru Kohyama, Food Research etermines the nutritional value of Gao, National University of atterns and trends with baby food Nutrition, Fremont, MI) a driver of pizza liking: a new insight	Chair — Bettina Wolf

10.10am	Morning Break – networking and opportunity to view posters and visit exhibitors (located in The Gallery and Conference Room 3)		
10.35am	The Influence of Oral Processing on Food Perception	Andries van der Bilt, University Medical Center, Utrecht	Chair – Christopher
11.05am	Theme 1 & 2 - Oral Physiology and Dentistry (10 minutes each plus 5 mins questions):		· Vinyard
11.05-11.20	1.1 - Inclusion of the initial phase of mastication for determining chewing efficiency using a solid test food (Hilbert W. van der Glas, Zhejiang Gongshang University)		
11.20-11.35	1.2 - Oral Peri-Receptor Events Affecting Salt Taste Sensitivity (Theresa Stolle, Technische Universität München)		
11.35-11.50	1.3 - Which variables should be controlled when measuring the granulometry of a chewed bolus? Results from a quantitative synthesis (Guillaume Bonnet, Université Clermont Auvergne)		
11.50-12.05	1.4 - Impact of oral health on masticatory efficiency and kinematics in young children (Natacha Linas, Centre de Recherche en Odontologie Clinique (CROC))		
12.05pm	Lunch – networking and opportunit Gallery and Conference Room 3)	y to view posters and visit exhibitors	(located in The
1.05pm	Oral Food Processing: a Dental Perspective	Nikolaos Giannakopoulos, University Clinic of Wurzburg, Germany	Chair – Andries van der Bilt
1.35pm	Improving oral health or changing food texture: the challenge for persons with neuromotor disabilities	Martine Hennequin, University of Clermont Auvergne, France	
2.05pm	Theme 1 & 2 - Oral Physiology and Dentistry (10 minutes each plus 5 mins questions):		
2.05-2.20	2.1 - Exposure to chocolate almond milk likely increases human salivary expression of proline rich proteins (Cordelia Running, Purdue University)		
2.20-2.35	2.2 - Unravelling the effects of interindividual variability of human saliva on aroma compounds (Carolina Muñoz-Gonzalez, Centre des Sciences du Goût et de l'Alimentation)		
2.35-2.50	2.3 - Responses of the Salivary Proteome to Transient Receptor Potential Channel Agonists (Jack Houghton, King's College London)		
2.50-3.05	2.4 - Discrimination of chocolate texture varies with individual differences in oral somatosensation (John E Hayes, Penn State)		
3.05-3.20	2.5 - Linking oral processing behaviour to oral physiology of consumers varying in age, gender and ethnicity (Eva Ketel, Wageningen University)		

3.20pm	Afternoon Break - networking and opportunity to view posters and visit exhibitors (located in The Gallery and Conference Room 3)		
3.45pm	From Food Texture to Global Perception: Respective Impacts of Food and Human Physiology Elisabeth Guichard,	INRA Paris	Chair – Gilles Feron
4.15pm	Theme 3 - Food Texture During Consumption (10 minutes each plus 5 mins questions):		
4.15-4.30	3.1 - Toppings facilitate oral processing behavior of bread and crackers (Markus Stieger, Wageningen University)		
4.30-4.45	3.2 - Temporal aspects of cream cheese texture perception using Temporal Dominance of Sensations (TDS) tool (Dian Widya Ningtyas, The University of Queensland)		
4.45-5.00	3.3 - From first to last bite: Emotions change from high to low arousal and dominant sensations built-up during multiple bite assessment of yogurt (Roelien van Bommel, Wageningen University)		
5.00-5.15	3.4 - On relating rheology and oral tribology to sensory properties in hydrogels (Emma Krop, University of Leeds)		
5.15-5.30	3.5 - Evolution of bolus granulometry and bioaccessibility during mastication of chopped and non-chopped beef m Duconseille, Université Clermont-Auvergne)	·	
5.30-5.45	3.6 - Carbonation as a novel taste-free thickener increase time (Jeyam Emmanuel, King's College London Dental Ins	_	
5.45-6.00	3.7 - Modifying gluten-free bread structure by different b conditions: impact on oral processing and sensory perceptuerta, Institute of Agrochemistry and Food Technology (otion (Patricia	
6.00-6.15	3.8 - Temporal Dominance of Motions: a new concept to links between texture perceptions and oral processing (A AgroParisTech)	•	
6.15-6.30	3.9 - Texture-dependent mastication behaviors of the eld different dental status (Weon-Sun Shin, Hanyang Univers	•	
6.30pm	Close		

6.30-7.30pm - FOP Committee meeting

7.30pm – Dinner at the Orchard Hotel

Tuesday July 3rd

8.30am	Nuts Just Take Up Space Where Chocolate Ought to Be: Food Complexity and Oral Breakdown	Bryony James, University of Auckland	Chair – Bettina Wolf
9.00am	Theme 4 - Food Physics during consumption (10 minutes each plus 5 mins questions):		Chair – Marco Morgenstern
9.00-9.15	4.1 - Chewing behavior of high-protein expanded pea flour (Christian Salles, INRA)		
9.15-9.30	4.2 - Mechanical properties affect detectability of perceived texture contrast in heterogeneous food gels (Marco Santagiuliana, Wageningen University & Research)		
9.30-9.45	4.3 - Modulation of taste intensity using heterogeneous distribution of taste active molecules in liquid foodstuffs (Benjamin Le Révérend, Nestlé Research Center)		
9.45-10.00	4.4 - Oral processing behavior of composite foods: interplay between carrier and topping properties (Arianne van Eck, Wageningen University)		
10.00-10.15	4.5 - Dynamic flavor release from chewing gum: mechanisms of release (Igor Bodnar, Firmenich S.A)		
10.15am	Morning Break - networking and opport (located in The Gallery and Conference I		it exhibitors
11.00am	Theme 4 - Food Physics during consumption (10 minutes each plus 5 mins questions):		Chair – Bettina Wolf
11.00-11.15	4.6 - Tribological Study on Saliva-Tea Compound Mixture: Correlation between Hui Gan (Sweet Aftertaste) Perception and Friction Coefficient (Chong Pik Han, Zhejiang Gongshang University)		
11.15-11.30	4.7 - Oral tribology of protein microgel particles: Influence of hydrophobicity of contact surfaces (Dr. Anwesha Sarkar, University of Leeds)		
11.30-11.45	4.8 - Clustering of oil droplets in o/w emulsions enhances sensory perception of oil related attributes (Elke Scholten, Wageningen University & Research)		
11.45am	Individual Variation in Taste	Joanne Hort, Massey	
	Perception: What Happens When We Thermally Stimulate the Tongue?	University	
12.30pm	Lunch – networking and opportunity to The Gallery and Conference Room 3)	view posters and visit exhibit	tors (located in

2.00pm	Using Functional MRI to Understand	Sue Francis, University of	Chair – Markus
2.00pm	Individual Variations in Taste	Nottingham	Stieger
	Perception		- Caregor
2.30pm	Theme 5 - Food Texture Insights through Analytical Assessment invivo, ex-vivo, in-vitro (10 minutes each plus 5 mins questions):		
2.30-2.45	5.1 - Biomechanical characterization of tongue-food interface during oral processing: an in vitro study with Quantitative Ultrasound (Vincent Mathieu, AgroParisTech, INRA)		
2.45-3.00	5.2 - Mechanical insights into the textural perceptions of model beverages – a multivariate approach (Piyali Chakraborty, University of Queensland)		
3.00-3.15	5.3 - Relating acoustic tribology to in vitr sensory perception (Ann Stijnman, NIZO,		
3.15-3.30	5.4 - Can in vitro and in silico studies help us understanding the motor control of swallowing? (Marco Marconati, University of Surrey)		
3.30pm	Afternoon Break - networking and opportunity (located in The Gallery and Conference)	risit exhibitors	
4.00pm	Oral Processing and Its Impact on	Jeyakumar Henry, Clinical	Chair – Ann-
	Metabolic Outcomes	Nutrition Research Centre,	Marie
		National University of Singapore	Williamson
4.30pm	Theme 5 - Food Texture Insights through Analytical Assessment invivo, ex-vivo, in-vitro (10 minutes each plus 5 mins questions):		
4.30-4.45	5.5 - Probing the in-mouth texture perception with a biomimetic tongue (Jean-Baptiste Thomazo, Sorbonne Université/Nestlé)		
4.45-5.00	5.6 - Effect of α -Amylase on Instantaneous Rheological Properties of Tapioca Starch (Shen Siung Wong, Tate & Lyle)		
5.00-5.15	5.7 - Estimation of physical quantities on human organ surface during oral and swallowing process using novel measurement system "F-bology® analyzer" (Tetsu Kamiya, Meiji Co. Ltd.)		
5.15-5.30	5.8 - In-vitro characterisation of bolus pressure, velocity and internal shear of non-Newtonian gelled liquid in a tongue-palate simulator (Andrew Redfearn, University College London)		
5.30pm	Journal of Texture Studies announceme	nts re 50 year celebration (Jia	anshe Chen)
5.40pm	Close		

7.00 pm - Drinks reception and photograph

7.45 pm - Gala Dinner in the Banqueting Suite, East Midlands Conference Centre – to include award of poster prizes and speech by Chair of FOP Committee

Wednesday July 4th

8.30am	Rheology and Swallowing of Food	Mats Stading, Research Institute of Sweden and Chalmers University of Technology	Chair – Allen Foegeding
9.00am	Theme 6 - Impact of Food Oral Pr		
	minutes each plus 5 mins questic		
9.00-9.15	6.1 - Impact of semolina food structure on mastication and bolus properties – prospects to postprandial glycaemia (Saara Pentikäinen, VTT Technical Research Centre of Finland Ltd.)		
9.15-9.30	6.2 - Variation in chewing behaviour among consumers and its impact on digestion (Esther Kim, The New Zealand Institute for Plant & Food Research Limited)		
9.30-9.45	6.3 - Can oral processing behavior yogurts with small texture differe Wageningen University, European		
9.45-10.00	6.4 - Nutrient bioavailability is red deficiency: interest of combining approaches (Marie-Agnès Peyron INRA)		
10.00-10.15	6.5 - Relationship between nutritional sucking habits, taste sensitivity, food consistency and body mass index in children: a multivariate analysis (Paula Midori Castelo, Federal University of São Paulo (UNIFESP, Brazil))		
10.15-10.30	6.6 - Impact of food formulation and processing on saltiness perception (Miroslaw Kasprzak, University of Nottingham)		
10.30am	Morning Break - networking and opportunity to view posters and visit exhibitors (located in The Gallery and Conference Room 3)		
11.00am	Interventions for Dysphagia: Modifications of Diet Texture, Head Position and Tongue Strength	Catriona Steele – Toronto Rehabilitation Institute	Co-Chairs — Mats Stading and Jianshe Chen
11.30am	Theme 7 - Designing Foods for Enhancing Sensory and Consumer Experience – Oral Processing for Specific Consumer Groups (10 minutes each plus 5 mins questions):		
11.30-11.45	7.1 - Chewing efficiency in 6 to 18 months old children: evolution with age and relationships with food texture acceptance (Carole Tournier, CSGA)		
11.45-12.00	7.2 - A mathematical model of the bolus formation of starch-based foods during oral processing (Muhammad S. How, Riddet Institute, Massey University)		

1.15pm	Conference close	
1.00-1.15	7.7 - Does the portion size matter for the evaluation of sensory perception, hedonic and emotional rates for a regular and a low sugar vanilla ice cream? (Marion Doyennette, Unilever)	
12.45-1.00	7.6 - Oral processing behaviour of liquid, semi-solid and solid foods differs between consumers varying in age, gender and ethnicity (Monica Aguayo Mendoza, Wageningen University)	
12.30-12.45	7.5 - Parent-reported food texture preferences and texture sensitivity in young children with and without Down syndrome (Charles Ben Bernhard, Washington State University/Sarah Smith-Simpson, Nestle Nutrition)	
12.15-12.30	7.4 - Exploring temporal methods to assess dynamic product profiles (Louise Hewson, PepsiCo)	
12.00-12.15	7.3 - Exploring the use of sensory tools to classify commercial dairy products for dysphagia sufferers (Maeva Cochet-Broch, C.S.I.R.O)	

Lunch available in the Conference Centre