

Supporting Health by Technology



Start	End	Thomas Ainsworth 3	Thomas Ainsworth 1 & 2	Pique	Calico	Manchester	Bombazijn
09:30	10:00	Coffee/tea + registration					
10:00	10:30		Opening				
10:30	11:15		Keynote 1 Eric Hekler				
11:15	11:30	Coffee break					
11:30	12:15			Session 1 Identifying value	Workshop 1 VR rehabilitation	Session 2 Implementation in healthcare	Symposium 1 Powertools
12:15	13:15	Lunch break (posters & demo's)					
13:15	14:00			Session 3 Engaging technology	Workshop 2 Designing Robots	Session 4 Development of interventions	Symposium 2 Implementation
14:00	14:15			Time to change between workshops/sessions			
14:15	15:00			Session 5 Co-creation with end-users	Workshop 3 Sense-IT	Session 6 Potential of (new) technology	Symposium 2 (continued)
15:00	15:30	Coffee break					
15:30	16:15			Session 7 Content of eHealth technology	Workshop 4 Designing virtual agents	Session 8 Implementation: professionalized healthcare	Workshop 5 A hub for health
16:15	17:00		Keynote 2 Anna Pohlmeier				
17:00	17:30		Closing				
17:30		Drinks in the hotel bar					

Keynotes

Crossing the chasms in eHealth; Aligning processes and motivations across sectors, disciplines and professionals and patients

Eric Hekler, PhD

Associate Professor in the Department of Family Medicine & Public Health at the University of California, San Diego.

The field of eHealth research is complex and includes an highly diverse range of meaningful stakeholders. While this diversity is one of the strengths of eHealth, it is also one of its weaknesses as it creates great challenges for working together. There is often a large chasm that exists between sectors, such as academia, industry, healthcare providers and policy makers; between disciplines, such as behavioral science, computer science, design, medicine, public health, and engineering; and even between professionals and the patients and citizens these professionals try to help. The focus of this talk is to discuss strategies for crossing the chasms across all of these areas. Central to this discussion will be an emphasis on coming to the conversation with the right frame of mind (e.g., humble, curious, and with creative confidence) while, simultaneously, empowered with methods and processes, such as experience-driven design and agile science, that can facilitate meaningful understanding and effective “turn-taking.” In this talk, dr. Hekler will provide a conceptual overview of these issues and then describe prior and ongoing projects that he worked on that involved crossing chasms of misunderstanding to produce meaningful real-world outcomes.

Brave New Tech

Anna Pohlmeier, PhD

Co-director of the Delft Institute of Positive Design

According to the World Health Organisation, health is more than the absence of disease – it is also a matter of mental and social wellbeing. While physical health has been addressed through design for decades, design for psychological wellbeing has only recently received explicit attention in design research. In this talk, Dr. Pohlmeier will share challenges, opportunities as well as many examples of Design for Happiness. Some of these are behavioural intervention technologies in the form of personal apps that support people with trainings, and services to improve their health and wellbeing. However, despite scientific evidence regarding the effectiveness of dedicated interventions, these face a number of challenges such as limited reach. In addition to supporting people’s wellbeing through specialised interventions, design can also have impact on people’s wellbeing through already existing routines of the everyday. Even simple interactions of preparing dinner and commuting to work can be designed with wellbeing principles in mind. Dr. Pohlmeier argues that a key element of wellbeing promotion and bringing Design for Happiness to scale is weaving it into everyday practices.

Sessions (1)

Session 1. Identifying value	Aniek Lentferink, Hilbrand Oldenhuis, Louis Polstra, Hugo Velthuisen, and Lisette Van Gemert-Pijnen	Creating value with mHealth applications: using the value proposition design
Session chair: Randy Klaassen	Roberto Rafael Cruz-Martínez, Lisette van Gemert-Pijnen, Kristin Klar, and Karsten Becker	Serious Gaming to Teach Hand Hygiene and Promote Behavior Change in Elementary School Aged Children
	Bard Wartena, Ivo Bril, Nick Degens, Job van 't Veer, Gijs Terlouw	Design requirements for a BCSS on social skills for children with ASD
Session 2. Implementation in healthcare	Wouter Keijser, Lisanne Penterman, Jacco Smits, and Celeste Wilderom	Implementing e-Health Enabled Integrated Care: Human Touch & Factors in High Tech Health
Session chair: Marloes Postel	Floor Sieverink, Saskia Kelders, and Lisette van Gemert-Pijnen	Evaluating the implementation of a Personal Health Record for chronic care: A mixed methods approach
	Gerard Linssen, Emilie Klaver, Mathilde Hermans, Alexandra Kleberger, Elly Rodijk, Salah Saïd, and Lisette van Gemert-Pijnen	Reducing clinically irrelevant alarms generated by a new telemonitoring technology in patients with heart failure
Session 3. Engaging technology	Elcin Hanci, Peter Ruijten, and Wijnand IJsselsteijn	Craft your own walking route: The effect of perceived autonomy on motivation
Session chair: Bard Wartena	Saskia Kelders	The concept of engagement in eHealth
	Lutz Siemer, Marjolein Brusse-Keizer, Marloes Postel, Somaya Ben Allouch, Angelos Patrinoopoulos Bougioukas, Robbert Sanderman, and Marcel Pieterse	Exploring adherence and predictors of adherence to a blended face-to-face and web-based smoking cessation treatment

Sessions (2)

Session 4. Development of interventions	Anne Looijmans, Marrit Tuinman, Lisette van Gemert, An Reyners, and Mariët Hagedoorn	Caregiver balance: development of an eHealth application to support decision-making
Session chair: Aniek Lentferlink	R. Crutzen, K.N. Newby, K. Brown, J. Bailey, J. Hunt, T. Alston, J. Saunders, T. Sadiq, S. Das, and A. Szczepura	Wrapped: Development of an intervention to increase condom use amongst users of online chlamydia self-testing services
	Sayali Phatak, Elaine Chen, Stephen Schueller, Ida Sim, Richard Kravitz, Christopher Schmid, and Eric Hekler	Design of a Large-scale Self-Experimentation Tool to Promote Scientific Self-Explorations
Session 5. Co-creation with end-users	Job van 't Veer, Joanneke Holtrup, and Tineke Willekes	An empowering design approach to develop empowering social skills interventions for children with autism
Session chair: Rik Crutzen	Joey van der Bie, Christina Jaschinski, Somaya Ben Allouch, and Ben Kröse	Co-Creating a Wayfinding App for Visually Impaired
	Yvonne Bouman, Hanneke Kip, Dirk Dijkslag, Anne-Marika Halma, Jakob Visser, Ron Voorhuis, and Kevin Krimmel	Development of a new VR-application to treat delinquent behaviour in forensic psychiatry using the CeHRes Roadmap
Session 6. Potential of (new) technology	Dana Bradford and Sally Brinkmann	Speaking my language: technology to facilitate hospital assessment of culturally and linguistically diverse patients
Session chair: Laurence Alpay	Geke Ludden, Angelika Mader, and Hellen van Rees	Textile Reflexes – a robotic textile for coaching
	Jessica van der Geer, David de Buisonjé, Renée IJzerman, Mike Keesman, Jobke Wentzel, Floor Sieverink, Hareld Kempes, Douwe Atsma, Roderik Kraaijenhagen, Veronica Janssen, and Andrea Evers	We all BENEFIT: The Ecosystem for Healthy Living

Sessions (3)

Session 7. Content of eHealth technology

Aranka Dol, Christina Bode, Hugo Velthuisen, Tatjana van Strien, and Lisette van Gemert

What do emotional eaters really need? Virtual Coaching Strategies treating Emotional Eating Behaviour: A Vignette Study

Session chair:
Jobke Wentzel

Richard Evering and Somaya Ben Allouch

Technology in End of Life Care

Nadine Köhle, Nienke Beerlage-De Jong, Annemarie Braakman-Jansen, Lisette van Gemert-Pijnen, and Liseth Siemons

Card Sorting to stay current; updating information structure of website about MRSA

Session 8. Implementation: professionalized healthcare

Monique Tabak, Fatma Cossu-Ergecer, and Marit Dekker

Implementing eHealth services for older adults with mild cognitive impairments and their caregivers into daily care practice

Session chair:
Matthijs Noordzij

Milou Feijt, Yvonne de Kort, Inge Bongers, Joyce Bierbooms, Wanda Kruijt, Mark de Graaf, Joyce Westerink, and Wijnand IJsselsteijn

Supporting the adoption of eHealth: addressing needs of mental healthcare professionals

Christina Jaschinski, Somaya Ben Allouch, Oscar Peters, and Jan van Dijk

Exploring the Influence of Behavioral Beliefs on the Adoption of Ambient Assisted Living Technology

Workshops

1. VR rehabilitation	Miriam Cabrita, Monique Tabak, Patrick de Haan, and Thomas Schüler	Will virtual reality refashion physical rehabilitation?
2. Designing robots	Geraldine Visser, Ruud Janssen, and Jantine Bouma	Designing personalized, enjoyable and desirable robots with people suffering from dementia and their caregivers
3. Sense-IT	Youri Derks, Matthijs Noordzij, and Randy Klaassen	'Sense-IT: an emotional awareness coach'. Using real-time bio-feedback to support training in emotional awareness for borderline patients with alexithymia
4. Designing virtual agents	Harm Op den Akker, Tessa Beinema, Silke ter Stal, and Marijke Broekhuis	Designing virtual agents for persuasive health coaching
5. A hub for health	Bart Brandenburg and Mark Hartevelt	A hub for health: designing a human centered personal health environment

Symposia

1. Powertools	Anita Cremers, Thijs Waardenburg, Jelle van Dijk, Maurice Magnee, Erik Jansen, and Maaïke Hermsen	Powertools: co-designing technological interventions to empower intellectually disabled people
2. Implementation	Mies van Eenbergen, Lilian Lechner, Judith Prins, Matthijs de Wit, Sanne van den Berg, and Chantal Lammens	Real-world implementation of evidence-based online interventions supporting wellbeing of people with cancer - planning, uptake and evaluation

Posters (1)

1. Rikke Aune Asbjornsen, Lise Solberg Nes, and Lisette van Gemert-Pijnen	Obesity: Enabling and supporting behavior change through persuasive health technology
2. Annelijn Goedhart, Sanne van Delft, and Esther Talboom	Saltro diagnostic test result web portal
3. Frank van den Boogert, Hanneke Kip, and Yvonne Bouman	Monitoring & coaching of reactive intimate partner violence: a systematic development approach
4. Julia Keizer, Nashwan al Naiemi, Rebecca te Riet-Warning, Annemarie Braakman-Jansen, and Lisette Van Gemert-Pijnen	EurHealth-1-Health: supporting healthcare workers to limit antibiotic resistance in hospitals
5. Olöf Birna Kristjansdottir, Jelena Mirkovic, Una Stenberg, Heidi A. Zangi, Marianne Westeng, Kurt Stange, and Cornelia Ruland	Patients' experiences with a mobile application to promote awareness of personal strengths: Preliminary results
6. Mariska ter Horst, Floor Sieverink, and Lisette van Gemert-Pijnen	Preserving a hospitalised patient's safety. First steps in the development process for a future eHealth technology to prevent surgical site infections.
7. Stian Jessen and Jelena Mirkovic	Facilitating Co-design process with patients using gamelike card activities
8. Simon Spahrkäs, Anne Looijmans, Mariët Hagedoorn, and Robbert Sanderman	The grey zone of m-health research: ethical challenges in international m-health intervention studies
9. Gerard Linssen, Kim Wijlens, Mathilde Hermans, Alexandra Kleberger, Elly Rodijk, Salah Saïd, and Lisette van Gemert-Pijnen	Algorithms to detect deterioration in heart failure patients: rationale and design of an observational study
10. Mathilde Hermans, Cor Kalkman, and Hermie Hermens	Early impact analysis of remote vital sign monitoring after esophagectomy: a multi-method study design
11. Katrin Paldán, Patric Paldán, and Jennifer Sell	Healthy lifestyle scores and their weighting system - A literature review
12. Esther Talboom-Kamp, Niels Chavannes, Marise Kasteleyn, Noortje Verdijk and Mattijs Numans	eHealth in Primary Care; From chronic disease management to person-centered eHealth: the necessity for blended care
13. Loes Bulle-Smid, Margreet van der Cingel and Marike Hettinga	How to support home care nurses assigning eHealth interventions

Posters (2)

14. Joan Dallinga, Laurence Alpay, Harmen Bijwaard and Marije Deutekom	Experiences of lifestyle-professionals and their chronically ill clients with apps and wearables for improving lifestyle
15. David Ireland and Dana Bradford	Talk to me: The Chatbot as a speech pathology monitoring tool
16. Hester van de Wiel, Martijn Stuiver, Anne May, Susan van Grinsven, Wim Groen, and Wim van Harten	Blended, eHealth based promotion of physical activity in breast and prostate cancer survivors
17. Anna Priante, Ariana Need, Michel Ehrenhard, Tijs van den Broek, and Djoerd Hiemstra	Identity, Twitter and Health Advocacy: Investigating the psycho-social mechanisms in online health fundraising campaigns
18. Laura Kooij, Wim Groen, and Wim van Harten	Barriers and facilitators to patient portal implementation from an organizational perspective: a qualitative study
19. Sara Casaccia, Gian Marco Revel, Lorenzo Scalise, Henk Herman Nap, and Sandra Suijkerbuijk	eWare: smart technology solution to support people with dementia and caregivers during the daily life
20. Lorenzo Gianquiteri, Giulia Marelli, Maria Brovelli, Piero Brambilla, Andrea Pagliosa, Guido Villa, and Enrico Caiani	Cardiac arrests, environment and external defibrillators: an analysis framework based on Health Geomatics
21. Kay Schreuder, Anne Kuijjer, Sanne Bentum, Thijs van Dalen, and Sabine Siesling	Use of 21-gene recurrence score in relation to the clinical risk in breast cancer patients
22. Kay Schreuder, John Maduro, Pauline Spronk, Nina Bijker, Philip Poortmans, Henk Struikmans, and Sabine Siesling	Variation in the use of boost irradiation in breast conserving therapy in the Netherlands

Demos

1. Ruud Janssen, Annemarie van Hout, Judith Kaptein, and Aranka Dol	Creating awareness of issues and dilemma's surrounding the use of technology in health care: presenting real-life situations using visual novels
2. Henri ter Hofte, and Wouter Keuning	Stealth by Tech: Controlling an Implantable Insulin Pump with a Smartphone
3. Bram Kuipers, Door Vonk, and Atse Aukes	Untire; beating cancer-related fatigue together
4. Jelena Mirkovic, Ólöf Birna Kristjánsdóttir, Stian Jessen, Marianne Westeng, and Cornelia Ruland	Technology to support people with chronic illness in mobilizing their personal strengths
5. Talko Dijkhuis, and Johan Blok	Virtual Coaching using Individualized Machine Learning Models and Activity Trackers
6. Mark Scholten	Agent-Based Modeling for simulating user motivation and adherence to e-health interventions
7. Nienke Beerlage-De Jong, Mariska Ter Horst, Nadine Köhle, Liseth Siemons, Annemarie Braakman-Jansen, and Lisette van Gemert-Pijnen	Game-based learning to support inter-disciplinary cooperation and provide insight in decision complexity
8. Gerrit van Ark, and Marianne Biegstraaten-Meeuws	Expanding the IMDI Talent Award for Sustainable Care