IDHEF

INTERNATIONAL DENTAL HYGIENE EDUCATOR'S FORUM

Friday March 8, 2024 (prior to ADEA)
Hilton Hotel, New Orleans, LA

Artificial Intelligence and Dental Hygiene Education- A Threat or a Valuable Resource?

The session will focus on how AI can be used to improve education to make it more effective and discuss ways to make faculty members more resourceful at teaching and dental hygiene students more efficient at learning. In this forum, the speakers will initiate an enlightening exploration of AI's potential in the oral health space and its intense impact on the educational landscape. You will gain a thorough understanding of the following topics: demystifying AI and its applications; utilizing AI's transformative power; analyzing the current landscape of AI adoption in dental hygiene education; and exploring the impact of AI and automation in future education. Join us as we explore emerging trends and innovations in AI and dental hygiene, including potential advancements in the field.

Silver Level Sponsor

Cindy Sensabaugh, RDH, MS, Philips Oral Healthcare

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About the Forum: The International Dental Hygiene Educator's Forum (IDHEF) is a meeting of international dental hygiene educators and educators from other disciplines, to promote networking, and to share curriculum and other information and ideas. The IDHEF was created by Sylvia Fresmann, DH B. Sc. and Maria Perno Goldie, RDH, MS, FADHA. The first meeting was held July 2014, in Germany; the second in Victoria, BC, Canada in October 2015 in conjunction with CDHA; the third in Long Beach, CA in 2017, in conjunction with ADEA; the fourth June 19, 2018 in Columbus, Ohio in conjunction with ADHA; and the fifth in Brisbane, Australia, 2019, prior to the ISDH; the sixth Dublin, Ireland, 2022, prior to the ISDH; and the seventh Chicago, IL, 2023, in partnership with ADHA & the 100 year anniversary. We endeavor to hold the IDHEF in conjunction with, or at the same time, as another meeting to make best use of attendees' and speakers' time. The next IDHEF is prior to ADEA. Join us and stay for ADEA and the International Women's Leadership Conference. We trust you will find the course offerings exciting, innovative and valuable. *The official language of the forum is English.*

We have a very exciting program planned, and *space is limited, so please register early!* Lunch is included.

The IDHEF will be held at the **Hilton New Orleans Riverside, Two Poydras Street, NEW ORLEANS, LA, US. The** Hilton New Orleans Riverside has air-conditioned rooms, an outdoor swimming pool and a shared lounge. This 4-star hotel offers a 24-hour front desk and an ATM. At the accommodation you will find a restaurant serving American, Cajun Creole and Seafood cuisine. Popular points of interest near the hotel include **Morial Convention Center**, Union Station and Mercedes-Benz Superdome. The nearest airport is Louis Armstrong New Orleans International Airport (**MSY**), fourteen miles from Hilton New Orleans Riverside.

Join us and stay for the 2024 ADEA Annual Session & Exhibition March 9-11, and the 2024 ADEA International Women's Leadership Conference VII (ADEA IWLC VII) March 12-13. 2024 ADEA Annual Session & Exhibition and 2024 ADEA International Women's Leadership Conference VII (ADEA IWLC VII).

Go to: https://www.facebook.com/profile.php?id=100063504012386 for updates.

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Registration Form

IDHEF March 8, 2024 New Orleans, LA, USA

The registration fee is $160.00 USD postmarked on or before December 1, 2023 and $170 USD postmarked on or after December 2, 2023. Please complete this form and page 18 and return to mariardhms@gmail.com**.**

Name: _____

Address: _____

_____

Email Address: _____

Telephone #: _____

Payment for the IDHEF can be completed via **Venmo** (@Maria-Goldie), **Zelle** (mariardhms@gmail.com), or check.

Lunch, two breaks and 8 CE credits are included in the registration price. Please advise us of any dietary restrictions.

If you have questions about the registration process or the IDHEF, please email me at: mariardhms@gmail.com. For checks, make payable to **Maria P. Goldie, 17230 Winchester Club Dr., Meadow Vista, CA 95722 USA**

Refund Policy Cancellations received prior to January 1, 2024 will be refunded minus a $25 cancellation fee. Cancellations received between January 2 and February 15, 2024 will be refunded minus a $50 cancellation fee. Cancellations received after February 16, 2024 are not eligible for refund. COVID: If the program is cancelled *by the hotel and they refund our money*, all fees will be refunded.

I, (insert name) name, allow my photo and contact information to be shared with others at the IDHEF through the List of Participants.

Yes___ No__

If yes, **please provide** your name, credentials, photo and personal information **as outlined below.** Send to: mariardhms@gmail.com. If I do not receive this information, I will assume you do not wish to be included in the List of Participants.

Maria Perno Goldie, RDH, BA, MS  	Past President, International Federation of Dental Hygienists Past President, American Dental Hygienists' Association Owner, Seminars for Women's Health Co-founder, IDHEF Co-editor, Dental Hygiene: Applications to Clinical Practice 17230 Winchester Club Drive, Meadow Vista, CA 95722 530-745-4029 Home office 650-281-5441 Mobile mariardhms@gmail.com
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Schedule and Preliminary Program March 8, 2024

9:00 AM	**Welcome**	Maria Perno Goldie, RDH, MS and Sylvia Fresmann, DH B. Sc.
9:05 AM	Remarks from Sponsor	Cindy Sensabaugh, RDH, MS, Philips Sonicare
9:10 AM	Self-Introductions	Participants.
9:30 AM	AI in academia	JoAnn Gurenlian, RDH, PhD and Marion Manski, RDH, MS
10:30 AM	**Break**	
10:45 AM	Creating Clinical Cases using Generative AI	Michelle Hurlbutt, RDH, MSDH, DHSc
11:15 AM	Artificial Intelligence - Lights on in the Black Box!	Dr. med. dent. Christoph K.-H. Kossack
12:00 AM	**Lunch**	
1:00 PM	AI in Dentistry/Dental Hygiene and Self Care	Cindy Sensabaugh, RDH, MS
1:30 PM	Pioneering Perio Assessment, the EFP classification and Patient management with AI and Clinical Expertise	Dr. med. dent. Christoph K.-H. Kossack
2:15 PM	Building Digital Literacy: The Foundation for Utilizing Artificial Intelligence in Education	Vanessa Crookshank, RDH, BSDH .
2:45 PM	**Break**	
3:15 PM	Panel Discussion	All Speakers Maria Perno Goldie, Facilitator
4:15 PM	Discussion & Wrap Up	Maria Perno Goldie, RDH, MS, FADHA and Sylvia Fresmann, DH B. Sc.
4:30 PM	**End of Session**	

Many thanks to the IDHEF Advisory Committee! *Mário Rui Araújo*, BSDH, M. Psych.; *JoAnn R Gurenlian*, RDH, PhD; *Melanie J Hayes*, BOH, BHSc (Hons), GCALL, MEd, PhD; *Zul Kanji*, BSc, Dip.DH, MSc, EdD; *Ron Knevel*, PhD, MEd, B. Health Dental Hygiene, RDH, NIMA-PR dipl, Dipl. Ed

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Presentation Title: **Building Digital Literacy: The Foundation for Utilizing Artificial Intelligence in Education**

Speaker: **Vanessa Crookshank, RDH, BSDH**

Vanessa Crookshank, RDH, BSDH, is a passionate educator, speaker, and lifelong learner with a deep-rooted love of technology. As a dedicated Dental Hygiene Instructor at Central Community College, Vanessa is wholeheartedly devoted to positively impacting the next generation of dental hygienists. Her unwavering dedication to dental technology shines through her leadership in guiding the integration of digital scanning and 3D printing into Central's dental hygiene program curriculum. By ensuring her students gain practical expertise in utilizing cutting-edge digital technology, her students will be prepared to apply their knowledge and experience, which will set them apart in the workforce.

Program Description In this presentation, we will explore the imperative need for educators to equip their learners with essential digital literacies in the context of generative artificial intelligence technologies, including ChatGPT. We will address this concern and explore comprehensive strategies that cultivate discernment, urging students to become insightful consumers, imaginative creators, responsible sharers, and vigilant custodians of their digital privacy and intellectual property. As stewards of knowledge, it is our inherent duty to guide our students through the complexities of this new digital age, empowering them to navigate with confidence, creativity, and ethical awareness.

Course Objectives: By the end of this presentation, participants will:

1. Gain a deep comprehension of digital literacy and generative artificial intelligence (AI) technologies, recognizing their significance and potential applications in higher education settings.

2. Explore responsible and ethical use of AI technology in education, emphasizing the importance of maintaining academic integrity. Encourage users to know the associated risks and make informed, ethical choices.

3. Discuss practical and efficient techniques for utilizing AI to reduce cognitive load for both students and educators.

Presentation Title: **Leveraging AI for Academic Excellence in Dental Hygiene Education**

Speakers: **JoAnn Gurenlian, RDH, MS, PhD, AAFAAOM, FADHA**

Marion Manski, MS, RDH

JoAnn Gurenlian is the Director of Education and Research for the American Dental Hygienists' Association (ADHA). Prior to joining the ADHA, Dr. Gurenlian served as Professor and Graduate Program Director for the Department of Dental Hygiene at Idaho State University and is Professor Emerita. She is a Fellow in the ADHA and an Affiliate Academic Fellow in the American Academy of Oral Medicine, Past President of the International Federation of Dental Hygienists and the ADHA, and Consultant to the ADA Council on Scientific Affairs. Dr. Gurenlian is the co-author of the textbook "Preventing Medical Emergencies" and author of over 350 papers in dental hygiene, dental and medical publications. She has conducted over 650 presentations at regional, national, and international events.

Dr. Gurenlian has served as Chair of the ADHA Task Force on Return to Work and served as Chair of the Advisory Committee on the Future of Dental Hygiene where she co-authored the report "Dental Hygiene: Focus on Advancing the Profession". She also served as Chair of the Pharmacy, Podiatry, Optometry, and Dental Professionals Workgroup (PPOD) of the National Diabetes Education Program, and more recently was a member of the ADA Expert Panel for the evaluation of potential malignant disorders of the oral cavity.

Dr. Gurenlian is the recipient of numerous awards including the IADR Oral Health Research Group 25th Oral Health Research Award, ADHA Presidential Citation, Esther Wilkins Lifetime Achievement Award, Alfred C. Fones Award, Irene Newman Award, ADHA/Warner Lambert Award for Excellence, and the ADHA Distinguished Service Award.

Marion C. Manski, RDH, MS, Associate Professor and Director of Dental Hygiene, VCU School of Dentistry She earned her certificate and associate's degree in 1983 from The Forsyth School for Dental Hygienists and Northeastern University. She earned her bachelor of science degree in dental hygiene at the University of Maryland School of Dentistry in 1988. Manski also graduated from the University of Maryland Graduate School with a master of science degree in 2004, As Director, she is involved in administration, curriculum academic advising, overseeing the program's strategic plan and goals. Prior to Manski coming to VCUSOD, she was Associate Professor and Director at the Fones School of Dental Hygiene at the University of Bridgeport 2018-22, and Associate Professor, Director/Director of Admissions at the University of Maryland School of Dentistry's Dental Hygiene Program 2002-2018. Director Manski serves as the Chair for The American Dental Education Association's Council of Allied Dental Program Directors where she also serves as Delegate. Ms. Manski serves on the

editorial review board of The Journal of Dental Education, Dimensions of Dental Hygiene and Perspectives of the Midlevel Practitioner. She served the Maryland, Virginia and Connecticut Dental Hygienists' Associations. She served on the Connecticut Department of Public Health's COVID Task Force in 2020. She was honored by her students with an Excellence in teaching award in 2005. She was also honored by her students as the Teacher of the Year in 2008. She was honored by her peers with the Maryland Dental Hygienists' Association Symbol of Excellence Award in 2013. She was appointed by Maryland Governor Larry Hogan to serve on the Maryland Commission for Women. Ms. Manski was honored nationally by her peers in 2016 as a "Mover and Shaker" in Dimensions of Dental Hygiene's Annual Six Dental Hygienists You Want to Know. The American Dental Hygienists' Association honored Ms. Manski nationally in 2017 with the ADHA Irene Newman Award.

Program Description: In today's rapidly evolving educational landscape, the integration of Artificial Intelligence (AI) has become increasingly important for dental hygiene educators. This one-hour presentation explores the transformative power of AI in academia and in scholarly presentations. Join us to discover how AI can enhance your teaching, research, and scholarly communication, while also addressing the associated benefits, concerns, and relevant policies. This presentation will equip dental hygiene educators with the knowledge and tools they need to harness the power of AI to enhance their teaching, research, and scholarly contributions, while ensuring ethical and responsible AI adoption in academia.

Course Objectives: By the end of this presentation, participants will:

1. Explore the various ways AI can be leveraged to improve teaching methods and enhance the learning experience for students.

2. Identify and assess the benefits of using AI tools and technologies for scholarly presentations and research in dental hygiene education.

3. Recognize the potential concerns and ethical considerations associated with the use of AI in academia and learn strategies to mitigate them.

4. Gain insights into current policies and guidelines related to the use of AI in scholarly journals and publications within the dental hygiene field.

5. Engage in interactive discussions that illustrate real-world applications of AI in dental hygiene education.

Presentation Title: **Artificial Intelligence - Lights on in the Black Box! How does the technology that is changing our century work?**

Speaker: **Dr. med. dent. Christoph K.-H. Kossack**

Christoph loves technology and has been developing computer programs since he was 10 years old. In 2000, he embarked on his educational journey, pursuing a degree in dentistry at the Charité in Berlin. By 2004, Christoph had already delved into the development which included contributions to projects with GABA. This experience marked the early stages of his involvement in the medical software field. Starting in 2008, Christoph's began working on the development of medical software in collaboration with prominent organizations such as the German Society of Periodontology (DG PARO), the German Society for Dental, Oral and Maxillofacial Medicine (DGZMK), and the Dresden University of Technology. This phase also included his engagement in the development and distribution of laboratory software, alongside consulting and coordinating technical aspects of clinical trials. Between 2008 and 2010, Christoph pursued further training as a specialist dentist for orthodontics at Charité - University Medicine Berlin, broadening his expertise in the dental field. Since 2010, he's taken on diverse roles, serving as Co-CEO and Head of Development of ParoStatus.de GmbH. Concurrently, Christoph has been actively contributing to academia by lecturing in M.Sc. Periodontology for international Master programs at the University of Freiburg and the German Society of Periodontology. Additionally, he's been engaged as a Speaker for the Academy Practice and Science, a Reviewer for scientific articles, and a Lecturer for Curriculum Periodontology. His commitment to the field of dentistry and medical software development has been a consistent thread throughout his career, and he continues to make significant contributions to the field, including his recent role as a Lecturer in M.Sc. Periodontology for the international Master program at RWTH Aachen University, which he began in 2021. In 2017, Christoph took on the role of Dental director for nationwide prophylaxis training courses with the DGDH e. V, and his active participation in the dental community culminated in 2018 when he was appointed as a member of a guideline group by the German Society of Dental, Oral and Maxillofacial Medicine, which is part of the Association of Scientific Medical Societies (AWMF). The AWMF is responsible for representing Germany in the Council for International Organizations of Medical Sciences (CIOMS).

Program Description: Dear colleagues! Do you know how many chips are produced worldwide per year? Take a guess! In any case, a large part of them are used in so-called neural engines for artificial intelligence (AI). It is clear that AI is changing our century. But how much it is doing so will leave a lasting impression on you. Back to the question: there are about 1200 billion chips - about 150 semiconductors per earthling per year. Although this technology is ubiquitous, how it works is largely unknown.

Let's shed some light on this black box! I invite you to an exciting journey of discovery into the basics of this fascinating technology. Be curious!

Course Objectives: By the end of this presentation, participants will:

1. Have a basic understanding of how AI works.
2. Understand the problems with using AI.
3. Make better use of AI's strengths.
4. Understand why AI makes certain decisions.

Presentation Title: **Pioneering Perio Assessment, the EFP classification and Patient management with AI and Clinical Expertise**

Speaker: **Dr. med. dent. Christoph K.-H. Kossack**

Program Description: Periodontal disease remains a significant public health concern, and early detection and effective treatment are critical to preventing complications. This presentation explores an innovative computer program that uses artificial intelligence (AI) to transform the way periodontal findings are recorded in the dental setting. The program harnesses the power of AI to streamline the process of periodontal examination, diagnosis, and record keeping, providing dental professionals with a more efficient and accurate way to assess and monitor patients' oral health. It is your digital dental assistant. An innovative aspect of this program is its integration with mobile applications designed to actively engage and motivate patients. Through a user-friendly interface, these applications provide vivid visualizations and easy-to-understand representations of patients' oral health, making complex dental information accessible and understandable. This motivational factor plays a critical role in increasing patient compliance and promoting proactive oral health care. In addition, the program's algorithms enable precise classification of various periodontal conditions, including gingivitis, different stages of periodontitis and specialized clinical variations. This helps dental professionals make accurate diagnoses, tailor treatment plans and effectively monitor disease progression.

Course Objectives: By the end of this presentation, participants will:

1. Know a computer program that utilizes artificial intelligence (AI) for transforming periodontal findings in the dental setting.
2. Explore the integration of the program with mobile applications designed to engage and motivate patients.
3. Learn about the application's vivid visualizations and user-friendly representations of oral health to make complex information accessible.
4. Explore how the program's algorithms enable accurate classification of various periodontal conditions, such as gingivitis and different stages of periodontitis.

Presentation Title: **Creating Clinical Cases using Generative AI**

Speaker: **Michelle Hurlbutt, RDH, MSDH, DHSc, FADHA**

Michelle Hurlbutt claims she has had the best of all worlds in dental hygiene. A graduate of the University of Nebraska, with a BS in Dental Hygiene, the University of Missouri, Kansas City, with an MS in Dental Hygiene Education, and Nova Southeastern University with a Doctor of Health Science. Michelle's career has included private practice, public health, corporate, continuing education, consulting, and dental hygiene education. Since 2015, Dr. Hurlbutt serves as the Dean of Dental Hygiene at West Coast University in Anaheim, California. She has been a course director for several courses including nutrition, pharmacology, cariology, medically compromised care, evidence-based decision making, and research. Michelle has been an active member of the American Dental Hygienists' Association (ADHA) all of her career. She is a past ADHA Board of Trustee member, and past president of both California and Nebraska Dental Hygienists' Associations. She was a charter member of the Dental Hygiene Board of California (DHBC), a state dental hygiene regulatory board, serving from 2009-2020.

Program Description Unlock the potential of artificial intelligence in creating engaging and diverse clinical cases using generative AI. This concise session will introduce you to key concepts and practical applications of ChatGPT in the crafting of a wide range of clinical case scenarios that will challenge and inspire learners at all stages of their educational journey.

Course Objectives: By the end of this presentation, participants will:

1. Articulate how generative AI can be used to build engaging and diverse clinical cases.
2. Acquire strategies for using generative AI to create all types of clinical cases.
3. Appreciate how the use of generative AI in the creation of clinical cases may assist both educators and students in creating meaningful learning experiences.

Presentation Title: **AI in Self Care**

Speaker: **Cynthia Sensabaugh, CRDH, MSDH**

Cindy Sensabaugh has built a career in dental hygiene education that has taken her around the globe. She is currently the Senior Manager, Professional Relations & Education Philips Oral Healthcare at Philips. Cindy is an experienced Professional Education Manager with a demonstrated history of working in the hospital & health care industry. She is skilled in Consumer Products, Medical Devices, Sales, Team Building, and Market Research. Cindy is a strong information technology professional with a Master's Degree focused in Dental Hygiene Education and Research from University of Missouri-Kansas City (UMKC). She received UMKC School of Dentistry-Dental Hygiene Alumni Achievement Award in 2020.

Program Description: In this presentation, Cindy will demonstrate how AI is used in dental hygiene/dentistry. She will explain the AI features of the Philips Sonicare Prestige 9900. It correlates data on electric power toothbrush motion to detect brushing location and techniques in the mouth and help improve brushing routines by informing users and offering actionable recommendations at the end of their brushing session. It also tracks patterns over time without the need to open the app during every brushing session. The app's recommendations motivate people to improve their brushing based on psychological theories of positive behavior change.

Course Objectives: By the end of this presentation, participants will:

1. Comprehend the significance of AI-driven technologies in improving oral healthcare.

2. Analyze the technology that enables the Philips Sonicare Prestige 9900 toothbrush to correlate data on brushing motion and techniques.

3. Understand how actionable recommendations are provided at the end of each brushing session to enhance oral hygiene.

4. Investigate how the app's recommendations are designed based on psychological theories of positive behavior change.