HELSINKI2021

23-25 APRIL

Vision for the future: forum for optometry and optics

DIGITAL BOOKLET

European Academy of Optometry and Optics

A warm welcome to HELSINKI2021!

It is my distinct pleasure to welcome you all to the 2021 annual conference of the European Academy of Optometry and Optics (EAOO), co-organized with the Finnish Association of Vision and Eyecare (NÄE ry), held under special circumstances but in a unique online format!

When we first began planning this conference with our colleagues in Finland - back in June 2019, we had no idea that our plans would have to be put on hold and readjusted to fit a new reality. After a pause in 2020, we began planning again in Spring 2021 for an exclusive online conference. I would like to thank all speakers and delegates for their understanding and patience while we pivoted online.

Yet, the theme we chose then - Eye Health for All - Emerging Technologies in Eye Care - has ta ken on a whole new meaning today. Since COVID-19 emerged, access to eye care has continued to change, with new technologies helping to ensure that routine eye care appointments are carried out and eye health is not forgotten.

In these pages and during the three conference days, I am convinced that you will discover an excellent scientific and clinical journey prepared by the programme committee and the organizers. I would like to thank our keynote speakers and lecturers for their excellent contribution to the debate on eye health for all. Finally, our thanks to our longtime partners in bringing this conference to life: NÄE ry and ECOO. The conference could not have happened without the support of our sponsors: Essilor, Alcon, Essilor, CooperVision, Oculus, Metropolia and HOYA. I invite you to visit their exhibition stands!

We do hope you will continue to engage with us beyond the conference, as we are planning a series of webinars throughout the year to help bring eyecare professionals together to discuss topics of interest.

Enjoy the conference and see you online!

Nicholas J Rumney,
President, European Academy of Optometry and Optics

A very Nordic, very digital, very warm welcome to Helsinki 2021!

I wish you all, on behalf of the Finnish Association of Vision and Eye care (NÄE) and Finnish colleagues, a warm welcome to EAOO Helsinki2021, the most interesting optometric event ever. Even if some of you are feeling bit disappointed we have been forced to offer the event this year online only due to COVID-19, at the same time it's very natural for us Finns and even for some a source of joy. As Finland and the Nordics are the home of modern mobile communication technologies and world-class players like Nokia & Ericsson, we are used to utilizing modern possibilities to their full extent, and also happy to share these concepts with others. So, I hope you will take everything you can from the keynote lectures, posters and discussions with colleagues over this weekend. This is even more possible to do online than in the traditional way because everything is going to be at your fingertips - even one month after the event.

We are very proud of the work that has resulted in EAOO Helsinki2021. I want to thank everyone on board, especially EAOO, ECOO and the almost 100 speakers committed to our event. This would not have been possible without our sponsors Alcon, Essilor, CooperVision, Oculus, Metropolia and HOYA. Thank you for your commitment and support, even through the difficult time when we had to postpone the event to this year. Helsinki Messukeskus and Prospectum teams are responsible for the digitalization of the event. I am sure every delegate will enjoy the digital experience you are going to offer us - thank you already in advance.

I hope that despite the circumstances we are living in, you will enjoy the event and feel the power of the uniformed profession of optometry. I wish you all a great conference!

Panu Tast
CEO, Finnish Association of Vision and Eyecare (NÄE)

Where optometric and optical practice and academic standards meet

The Helsinki2021 conference is the first of its kind, which makes it even more special than usual! I can only laud the organisers, the European Academy of Optometry and Optics (EAOO) and the Finnish Association of Vision and Eyecare, for the excellent programme and online platform they have set up!

As ECOO, we partner with the EAOO every Spring to run the ECOO General Assembly meetings alongside the conference, allowing for professionals and academia to intermingle. It is this intersection that is so valuable to all of us. It is ECOO's core mission to promote eye health to the public across borders and to harmonise clinical and educational standards of optometric and optical practice throughout Europe.

To create a harmonised professional and educational system for optometry and optics, ECOO has developed the European Diploma in Optometry, which is designed to be at the highest entry level into the optometric profession in any country of Europe, as well as the European Qualification in Optics set-up to establish the basic entry standard for opticians in Europe.

ECOO's team of academic visitors is busy accrediting academic institutions with the certifications throughout Europe and we are delighted to see that our graduates are now approaching the 500 mark. If you are interested in learning more about the accreditation scheme, accredited universities or what these qualifications entail, visit our website: https://www.ecoo.info/european-diploma/

I am looking forward to attending the sessions and to interact with many of you via the online means!

Dr Cindy Tromans,
Acting President of the European Council of Optometry and Optics

THE VOICE OF OPTICIANS AND OPTOMETRISTS IN EUROPE

We are the most influential optical and optometric body in Europe

- We are over 40 member associations from 25 countries
- Our members together represent more than 150,000 opticians and optometrists across Europe.
- We bring together the interests of the professions to speak with one voice.

Our Blue Book provides stakeholders with unrivalled information about opticians and optometrists

- including details on the number and size of the profession in each country, the status, and scope of practice of the profession, its role in public health, and the education and training provided.

Good vision is an important part of healthy ageing –

- allowing people to stay active and engaged with friends and family. We work in partnership with colleagues in the IAPB, the Global Coalition on Aging and the European Coalition on Vision to put the importance of good vision at the heart of policy making.

Driving and vision –

- safe driving is only possible with good vision. We are working to achieve adequate and consistent visual standards for driving across Europe.

Medical Devices Regulation and Fluorescein –

- we lobby regulators to ensure the needs of patients and their eye care providers are at the heart of regulations.

We look to the future –

- developing understanding among eye care professionals, patients and regulators of how e-health and Artificial Intelligence can contribute to good eye care.

Visit us on www.ecoo.info
Follow us on Twitter @ecoo_info

KEYNOTE SPEECHES

DAY 1

Friday 23 April, 10:30-11:30 (GMT+3)

PERTTU PÖLÖNEN

What makes you different from a computer? A look into the future skills

Perttu is an inspiring speaker who talks about disruption, megatrends, exponential technologies and their tremendous impacts on people, organizations and the future of education. Perttu's presentation is a dynamic combination of disruptive thinking from Silicon Valley and empowering optimism from a millennial. Perttu has received excellent feedback on his ability to encourage his audience to face the challenges of the future, but also its unprecedented opportunities. The world is open to the person who understands the evolution of technology. Perttu Pölönen is an inventor, entrepreneur and composer who has won EU's biggest science competition for youth and studied future technologies at Singularity University, based at NASA Ames Research Center in Silicon Valley. In media, Perttu has been called a fearless inventor and a super highbrow-in 2014 he was given the Most Creative Finn Award at Slush and in 2018 MIT Tech Review honored him among the35 Innovators Under 35 in Europe.

Friday 23 April, 12:00-13:00 (GMT+3)

RUPERT BOURNE

The Global Burden of Vision Loss- changes in prevalence and causes of visual impairment and the implications for the future

Rupert Bourne is Professor of Ophthalmology at Anglia Ruskin University, Cambridge and Consultant Ophthalmic Surgeon at Cambridge University Hospital, where he directs the Cambridge Eye Research Centre. He trained at Moorfields Eye Hospital and undertook two Glaucoma fellowships, one there and another at the Shiley Eye Centre/Hamilton Glaucoma Center in San Diego, California. He has a strong research interest, particularly in advanced techniques of Glaucoma diagnosis and progression and the management of Glaucoma in the community, along with overseas ophthalmology which has involved design and analysis of several large population-based surveys of eye disease, several national in scope, e.g. Pakistan, Bangladesh and Trinidad. He is the Chair of the National Institute for Health Research Ophthalmology Specialty Group, responsible for NHS research delivery. In his role as Coordinator of the Vision Loss Expert Group of the Global Burden of Disease Study, he has overseen the long-term research into the world-wide prevalence rates of blindness and visual impairment, in partnership with the World Health Organization. He is Chief Investigator for the UK National Eye Health and Hearing Study.

KEYNOTE SPEECHES

DAY 3

Sunday 24 April, 11:30-12:30 (GMT+3)

KAREN SPARROW

Disruptive Technology and Reverse Innovation - its impact in eye health delivery and what we can learn from low- and middle-income countries

Karen Sparrow is Head of Global Programme Training at Peek Vision, a non-profit, social impact technology start-up leading ground-breaking work to develop smartphone solutions to reduce avoidable blindness across the world, and especially in low- and middle- income countries. She trained at Cardiff University and the London School of Hygiene & Tropical Medicine. Her work focuses on mentoring and training optometrists and eye health professionals for non-profits, Universities, NGOs and national Optometry associations. She has also been involved in policy and regulatory work in the UK, Europe and worldwide. She works closely with a number of bodies on global optometry and eye health education, including the World Council of Optometry, Vision Aid Overseas and the Worshipful Company of Spectacle Makers.

JOINT EAOO-AAO SYMPOSIUM: DEMENTIA, DIGNITY AND THE EYECARE PRACTITIONER

Friday 23 April, 14:30-18:00 (GMT+3)

14:30-15:30: Person-Centred Dementia Care

2017 statistics show there are almost 9.5M people with dementia in Europe. This lecture explores some of the facts about dementia and how this disease affects patients. Delegates will be asked to consider their current practice and how they may be able to adapt communication and the practice environment to ensure patients with dementia can access optical care without discrimination.

Speaker: Elaine Grisdale, FBDO FAAO FEAOO
Elaine is ABDO's Head of Professional Services and International Development. She qualified as a dispensing optician and first registered with the General Optical Council in 1985. She became a Liveryman of the Worshipful Company of Spectacle Makers in 2000, a Fellow of the American Academy of Optometry in 2009 and a Fellow of the European Academy of Optometry and Optics in 2018.
She is a Trustee of the Board for the European Academy of Optometry and Optics and a Scientific Committee Member of the Silmo Academy in France and a member of the Jury Verres for Silmo. Elaine is also the Director of Development for the International Opticians Association whose role is "to enhance and develop the optical profession around the world".

15:30-16:00 (continued at 17:30-18:00): 'Dementia and sight loss for optometrists. A guide for everyday practice

This talk will cover the latest research and guidance for optometrists who are dealing with people living with dementia in their practices. We will discuss the different types of Dementia, How dementia interacts with patients presenting with sight problems, how to perform an examination of the eyes in a patient with dementia and how to recognise and manage different types of pathology presenting uniquely in this vulnerable group of patients.

Speaker: Paul Ursell, MBBS MD FRCOphth
at the Royal Marsden Hospital, Trustee of SeeAbility, UK representative for Ophthalmology on the European Board of Medical Specialties and Liveryman of the Worshipful Company of Spectacle Makers (past Treasurer of the UK & Ireland Society of Cataract & Refractive Surgeons). Paul qualified as a doctor at St Mary's Hospital Medical School and trained as a junior surgeon in London, Oxford and Australia. He is a Fellow of the Royal College of Ophthalmologists and is a regular speaker at international cataract surgery conferences. Paul specialises in advanced cataract surgery. He has undergone extensive training in cataract surgery and is now heavily involved in both teaching and publishing research in this field. He is an internationally invited speaker and an acknowledged key opinion leader in cataract surgery, dementia and sight loss.

JOINT EAOO-AAO SYMPOSIUM: DEMENTIA, DIGNITY AND THE EYECARE PRACTITIONER

Friday 23 April, 14:30-18:00 (GMT+3)

16:30 - 17:30: Visual and Ocular Manifestations Of Neurodegenerative Dementias

Dementia causing neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease are increasing in our aging population. Awareness of the visual and ocular manifestations of these neurodegenerative diseases is critical to help with early diagnosis and management and to provide a better quality of life for patients affected by these conditions.

Speaker: Kelly Malloy, OD, FAAO, Dipl.
Dr. Kelly Malloy holds the rank of Professor at the Pennsylvania College of Optometry of Salus University, where she specializes in neuro-ophthalmic disease. She is the Chief of the Neuro-Ophthalmic Disease Specialty Clinical Service at The Eye Institute, and has achieved Diplomate status in this specialty at the American Academy of Optometry. Besides her clinical patient care responsibilities, she also teaches the Head & Neck Anatomy, Neuro-Anatomy, and Neuro-Ophthalmic Disease courses at Salus.

GLAUCOMA SESSION
ICARE HOME USER EXPERIENCE: DIURNAL MONITORING OF IOP AND IOP FLUCTUATIONS IN GLAUCOMA PATIENTS

Sunday 25 April, 09:30-10:30 (GMT+3)

Speaker: Barbara Cvenkel, MD
Barbara Cvenkel is Head of Glaucoma at the Eye Hospital, University Medical Centre Ljubljana and Professor for Ophthalmology at the Medical faculty, University of Ljubljana, Slovenia. She is President of the Slovenian Glaucoma Society and vice president of the Slovenian Society of Ophthalmology. To improve diagnostics and management of glaucoma in Slovenia she has published guidelines for treatment of glaucoma. Besides performing clinical care for glaucoma patients for more than 20 years, she is involved in glaucoma research projects and has published many articles on glaucoma and ocular surface, diagnostics and treatment of glaucoma in international journals.

Speaker: Matjaž Mihelčič, M.Sc., optometrist
Matjaž studied Optometry in Munich / Germany in 2001 - 2003. Simultaneously, he completed the certification for Master in Eye - optics at the Handicraft Chamber in Ljubljana. In 2008, he completed the Master-programme in Aalen / Germany, organized by the American universities New England College of Optometry and Pacific University College of Optometry. During the studies, he attended summer programmes at these two colleges in Boston and Forest Grove / Oregon and at adjacent clinics. In 2010 - 2015 he did an interdisciplinary PhD at the Faculty of Arts in Ljubljana, at the Experimental Psychology programme in the subject Visual Stress and Cognition. During this period, he completed the external subject at the University Eye Clinic in Tübingen. Among others, he made his proficiencies in Freiburg University eye clinic and at Miller Institute in Innsbruck. Matjaž is author of several innovations in the optical field. From 2008 to 2020, he was regular lecturer at University of Velika Gorica at the Optometry programme and works in a private practices »Optika Mesec« in Bled and in Jesenice / Slovenia. His interest fields are prescription of special contact lenses, binocular vision correction and the problems of visual near point - stress and myopia growth. Since 2006, he is the president of Optical Association of Slovenia, organizing conferences, seminars and workshops in optical and optometry topics yearly. He is founding member of European Academy of Optometry and Optics.

ESSILOR SPONSORED LECTURE: BRINGING REFRACTION TECHNOLOGY AND METHODOLOGY IN 2021

Friday 23 April, 13:00-13:30 (GMT+3)

This presentation will delve into advances in optometric examination technology in recent decades, including retinal examination instrumentation, and how refraction technology has yet to catch up. With more precision in digital lens manufacturing, the time has come to revisit refraction technology. The session will highlight the limitations on refraction imposed by 20th century equipment and will explore the potential of new technology and technology-enabled innovative strategies. Finally, the presentation will draw attention to findings from a recent comprehensive study of a new approach to refraction, with emphasis on the patient experience.

Speaker: Mark A. Bullimore, MCOptom, PhD, FAAO
University of Houston, College of Optometry,
Boulder, Colorado

Professor Bullimore is an internationally renowned scientist, speaker, and educator based in Boulder, Colorado. He received his Optometry degree and PhD in Vision Science from Aston University in Birmingham, England. He spent most of his career at the Ohio State University and the University of California at Berkeley and is now Adjunct Professor at the University of Houston. He is Associate Editor of Ophthalmic and Physiological Optics and the former Editor of Optometry and Vision Science. His expertise in myopia, contact lenses, low vision, presbyopia, and refractive surgery means that he is consultant for a number of ophthalmic, surgical, and pharmaceutical companies.

Speaker: Pete S. Kollbaum, OD, PhD, FAAO
Indiana University, School of Optometry,
Bloomington, Indiana

Doctor Kollbaum is Associate Dean for Research, and Director of the Borish Center for Ophthalmic Research at Indiana University. Dr. Kollbaum received the Borish Award from the AAO and was a three-time recipient of an Ezell Fellowship provided by the AAO Foundation. Dr. Kollbaum holds membership in AAO, ARVO, BCLA, and ISCLR. He is currently the Past-President of the AAO Foundation. His interests include lens design, optics, myopia, presbyopia, eye fatigue, and predictive modeling.

ALCON SPONSORED LECTURE: WATER SURFACE TECHNOLOGIES - ALCON'S VISION FOR THE FUTURE 2021

Friday 23 April, 18:00-18:30 (GMT+3)

What are the concepts that led Alcon for the development of water surface technology? We will take a journey through the thoughts behind Water Surface Technologies and our vision for helping people see brilliantly.

Our innovations have paved the way to improve the handling, use and comfort of contact lenses. Our expertise in polymer chemistry has led to the most innovative contact lens technology in Alcon's history. This technology provides the foundation to deliver unique product solutions that meet a number of known clinical and patient needs. And we will continue to do so.

Speaker: Mai Pham, BSc Optometrist,
Nordic Professional Affairs Manager at Alcon

Mai Pham graduated from University of South-Eastern Norway in Optometry in 2011 and completed a BSc in Economics and International Management from South-Eastern Norway and Queensland University of Technology, Australia in 2015. During her studies she was also involved in the Norwegian Optometry Association as student liaison. Mai has experience from private optometric practices both in Norway and Denmark before joining Alcon Vision Care in Copenhagen in 2018. In her role as a Professional Affairs Manager she support the making and execution of plans for educations and seminars to Nordic Eye Care Professionals (ECP's), staff, optometry schools, optometry assistants schools and students.

During the past 2 years she has assisted in developing educational platforms, events and professional materials to reach Nordic ECPs, store management and staff efficiently, and have engaged in education activities across all Nordic markets (Sweden, Finland, Denmark and Norway). Alongside of being the voice of the ECP she has also a great interest to help managing clinical studies of new and existing contact lens products together with leading Nordic Eye care practitioners and to ensure proper usage of claims from all global studies.

Her primary areas of interest, both from her previous role as an optometrist and in her current role are soft spherical, toric and monthly contact lenses and contact lens care.

HOYA VISION CARE SATELLITE SYMPOSIUM

Saturday 24 April, 10:00- 11:00 (GMT+3)

MiYOSMART: latest insights for myopia control

Chairs: Petri Eskola & Pascal Blaser

10:00-10:02 Welcome and introduction

10:02-10:10 The principles of MiYOSMART
Speaker: Petri Eskola, Global Marketing PMO Manager, Optometrist

10:10-10:30 Myopia control effect of MiYOSMART - findings of 3 year follow up study
Speaker: Prof. Carly Lam, Hong Kong

10:30-10:40 Myopia control - making it happen!
Speaker: Prof. Bruce Evans, United Kingdom

10:40-10:55 Panel discussion

9:55-10:00 Conclusion

Professor Carly Lam, Professor of the School of Optometry, at the Hong Kong Polytechnic University

Professor Lam has spent most of her teaching career at The Hong Kong Polytechnic University. She has a long-standing research interest in myopia and has published over 60 papers on this topic. She received the OPO Bernard Gilmartin Award from the College of Optometrists in UK for Research Excellence in 2015. She is a Member of the College of Optometrists (UK) and a Fellow of the American Academy of Optometrists. She has served in the Asia Pacific Council of Optometry (APCO) and World Council of Optometry (WCO) in various roles for more than 10 years. She is currently the Vice President and Chair of the Membership Committee of APCO, and a member of Education Committee and board of director of WCO.

Professor Bruce Evans, Director of Research at the Institute of Optometry and Visiting Professor to City, University of London, and to London South Bank University

Professor Evans is a Fellow (by examination) of the College of Optometrists and holds their higher qualifications of Diploma in Contact Lens Practice and Diploma in Orthoptics. He is a Fellow of the: AAO, EAOO, BCLA. His main areas of research are binocular vision (orthoptics), children's vision, dyslexia, contact lenses, myopia, computer vision syndrome, and headaches including migraine. He has authored over 250 scientific and professional papers, eight editions of optometric textbooks, and has given more than 250 invited lectures. He is a director of an optometric practice and of an optometric consultancy company.

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SEE BRILLIANTLY

PRECISION1™ PRODUCT PROFILE (OPTICIAN – JANUARY 2021)

As we continue to practice in a pandemic, I have heard many eye care professionals comment that they have become ever more aware of the importance of our contact lens wearing patients being safe and happy in their contact lenses. For those they are introducing to contact lenses for the first time that they are confident that they have a contact lens that they can start in and stay in. Whilst at the same time recognising more than ever the importance and value of their contact lens practice. In other words, they want to ensure that they and their practices have the best contact lens retention possible. To be able to address retention you need to understand the reasons for contact lens dropout. The most cited reasons for dropout are consistent across many different reviews; comfort, vision and handling.(1)

PRECISION1™ lenses are the latest contact lens innovation from Alcon, designed with the dropout challenge (or retention opportunity in mind) offering excellent comfort, vision and handling (2) to daily disposable lens wearers. Designed to support a stable tear film, these lenses feature SMARTSURFACE™ Technology, a water surface which was inspired by the water gradient technology of DAILIES TOTAL1™ lenses. The lens surface of DAILIES TOTAL1™ provides a thick cushion of moisture that gradually transitions from 33% water near the lens core to nearly 100% water at the outer surface, (3,4) whereas the SMARTSURFACE™ Technology of PRECISION1™ features a silicone hydrogel lens core of 51% water that steps up to a thin surface layer made of over 80% water. Additionally, the surface layer of SMARTSURFACE™ is uniform, not a gradual change (Figure 1) (5) Apart from DAILIES TOTAL1™ and PRECISION1™ lenses, no other contact lenses have water surface technologies.

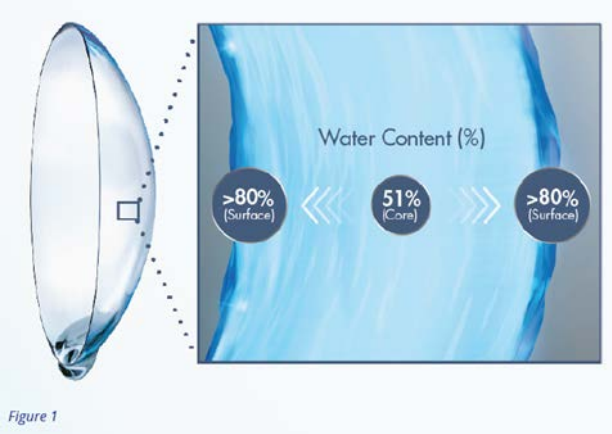

Figure 1

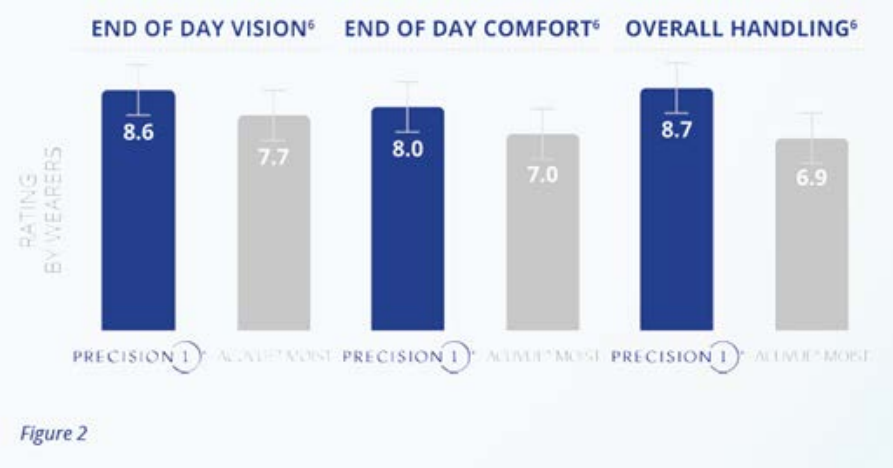

Figure 2

In a clinical trial, wearers rated the end-of-day vision, end-of-day comfort and overall handling of PRECISION1™ contact lenses superior to 1-Day ACUVUE^ MOIST lenses (Figure 2).6 In addition, five times as many wearers "strongly preferred" PRECISION1™ lenses versus ACUVUE^ MOIST.6

With SMARTSURFACE™ Technology, PRECISION1™ lenses are a great choice for new contact lens wearers and those existing contact lens wearers who might be experiencing some of those causes of potential contact lens dropout – retain them with the opportunity to experience a lens designed for comfort, vision and handling.
PRECISION1™ lenses are available in a wide range of powers, from −12.00D through +8.00D. PRECISION1™ lenses also offer Class I UV blocking—the highest level of UV blocking available for contact lenses. 5* With all these features, it's easy to see why PRECISION1™ lenses are a great option for new daily disposable and existing contact lens wearers. PRECISION1™ has already been enjoyed by eye care professionals and their patients in Australia, New Zealand, North America and now is available in the UK and Ireland. We asked some of those who have been fitting it routinely and they strongly suggest that you fit your new contact lens wearers, and those switching into daily disposables, in PRECISION1™ contact lenses.

* UV-blocking contact lenses are NOT substitutes for protective UV-blocking eyewear such as UV-blocking goggles or sunglasses because they do not completely cover the eye and surrounding area.
^Trademarks are the property of their respective owners.

References
1. Sulley A. Retention rates in new contact lens wearers. Eye and Contact Lens. 2018;44:S273-S282
2. Cummings S, Giedd B, Pearson C. Clinical performance of a new daily disposable spherical contact lens. Optom Vis Sci. 2019;96:E-abstract 195375.
3. Angelini TE, Nixon RM, Dunn AC, et al. Viscoelasticity and mesh-size at the surface of hydrogels characterized with microrheology. Invest Ophthalmol Vis Sci. 2013;54:E-abstract.
4. Thekveli S, Qui Y, Kapoor Y, et al. Structure-property relationship of delefilcon A lenses. Contact Lens Anterior Eye. 2012;35(Suppl 1):e14.
5. PRECISION1 Contact Lenses Instructions for Use [package insert]. Fort Worth, Tx: Alcon Vision LLC; 2019.
6. Cummings S, Brobst A. Clinical assessment of a new silicone hydrogel daily disposable and a HEMA-based daily disposable contact lens. Poster presented at the American Academy of Optometry Annual Conference, October 23-26 2019; Orlando, Florida
See product instructions for complete wear, care and safety information.
IE-PRI-2100004

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THE LENS TO **START IN** AND **STAY IN**

A GREAT LENS to meet the needs of new and current wearers seeking precise vision,[1] long-lasting comfort[1] and ease of handling.[1]

A GREAT PROGRAM designed to overcome consumers' barriers to trying contact lenses and provide pre- and post-fit support to help them establish a good contact lens routine. The program will help drive engagement and loyalty for your practice.

PRECISE VISION[1]

LONG-LASTING COMFORT[1]

EASE OF HANDLING[1]

PRE- AND POST-FIT SUPPORT

ALSO AVAILABLE FOR **ASTIGMATISM**

Contact your Alcon sales representative to find out more.

Reference: 1. Cummings S, Giedd B, Pearson C. Clinical performance of a new daily disposable spherical contact lens. *Optom Vis Sci.* 2019;96:E-abstract 195375.

See instructions for use for complete wear, care and safety information.

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REDEFINING THE STANDARD OF VISION CORRECTION

Refraction is the starting point for a patient who needs vision correction. Subjective refraction is very important because its purpose is "to provide the patient with the optical correction nearest to the optical ideal with which he sees best and is most comfortable" (1). The traditional limitation of current refraction tools in steps of 0.25D may result in a visual solution that may not entirely satisfy the wearer. Essilor's latest research shows that 95% (2) of the population have more sensitive vision than the current correction steps of 0.25 diopter. As a pioneer, Essilor felt a duty to challenge the vision correction standards that have been used for 100 years.

Vision-R TM 800, A New Phoropter To Push The Boundaries of Precise Refraction

For many years, subjective refraction techniques have hardly changed. Today, Vision-RTM 800 phoropter offers continuous power changes and makes refraction more precise, easier to perform for the practitioner and more comfortable for the patient. With Vision-RTM 800, Essilor® reinvents subjective refraction thanks to two breakthrough technologies for precise refraction at 0.01D:

- A breakthrough optical module to target powers continuously and instantaneously with a resolution of 0.01D
- A smart refraction program inspired by optometric and psychophysical methods to target the sphere and cylinder in 0.01D steps according to each patient's sensitivity

Essilor AVA™, A Breakthrough Journey Of High Precision Vision

After 5 years of scientific research Essilor has developed a breakthrough journey of high precision vision: AVA™. This new journey is based on 2 steps:

- Precise refraction at 0.01D delivered by the Vision-RTM 800
- The integration of the new precise prescription in Essilor® premium lens designs

With Essilor AVA™, the new precise prescription is integrated into Essilor's lens calculation systems to manufacture premium lenses such as: Varilux®, Eyezen™ and other Essilor® premium single vision lenses.

This precise journey can be further strengthened with the Visioffice® measuring system. Thanks to the personalisation of the lens and exclusive measurements like Eyecode® (3) , eyecare professionals can offer their patients Essilor lenses to achieve the best visual performance for them.

1 Duke-Elder, S. and Abrams, D. (1970) System of Ophthalmology: Volume V, Ophthalmic optics and refraction. C.V. Mosby Company, St. Louis, USA, P 507.
2 Study conducted by Essilor – 146 patients between 18yo and 65yo – Singapore – 2016.
3 Eyecode TM technology is a patented measurement of the exact position of the Eye Rotation Center.

Happening on April 23rd, 2021

SAVE THE DATE!

12:00-12:30 CET

Essilor's sponsored presentation

Bringing refraction technology and methodology in 2021

16:30-17:30 CET

Essilor's open paper session 4

Advanced Vision Accuracy (Essilor AVA™):
from new refracting method to new ophthalmic lens solution to facilitate prescription in increments of 0,01 D

ABOUT THE SPEAKERS

Mark A. Bullimore, MCOptom, PhD, FAAO
University of Houston, College of Optometry, Boulder, Colorado

Pete S. Kollbaum, OD, PhD, FAAO
Indiana University, School of Optometry, Bloomington, Indiana

Gildas Marin
R&D Research Manager
Vision Sciences
R&D Department
Essilor International

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