

## Optometry DisList

Instance 2015: 14

Tuesday, 25 August 2015

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- Detecting Eye Diseases with Help of a Smartphone
- Hydrogel inlay may treat presbyopia with little effect on visual quality
- IACLE announces new contact lens course to educate future practitioners around the world
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- Optometrists (Job Opening)
- Job Opening @ India Vision Institute
- Situations vacant for Optometrist at India Vision Institute (Job Opening)

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### Today's Messages:

From: Abhishek Kalbarga ([abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org))

Subject: **Hyderabad to host the 2017 World Congress of Optometry Conference**

India will host the world's largest gathering of optometry and eye care professionals at Hyderabad during 11 to 13 September 2017. The announcement was made by Dr Susan Cooper, President of the World Council of Optometry (WCO), at the inaugural World Congress of Optometry Conference in Columbia on 13 August 2015. To be hosted by the India Vision Institute (IVI), in partnership with WCO, the conference is expected to attract around 2000 delegates and 70 exhibitors from across the world.

"India has been gaining the attention on the world map of optometry with remarkable strides through advances in education, research and combating preventable blindness. We look forward to having our next Congress in Hyderabad. We are also delighted that we can partner with IVI, an institution which stands for positioning Optometry as a key player in eye care delivery through its impressive range of initiatives across India", said Dr Cooper.

Welcoming the decision, IVI CEO, Vinod Daniel said that the Congress will prove to be a landmark in the history of Indian optometry and will accelerate the positive change that is happening in Indian Optometry. This conference will be a celebratory milestone for India, he added.

"Uncorrected refractive error remains a major cause of avoidable vision impairment and the second most common cause of blindness in India accounting to 39.3 million affected people. This huge number itself indicates the need for trained professionals, collective efforts and

equitable solutions. The conference will help in taking a step towards these growth indicators by highlighting the cause and what optometry is achieving globally and in India” said Prof Kovin Naidoo, the current conference chair and interim CEO of the Brien Holden Vision Institute

For further details, please contact Abhishek Kalbarga  
([abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org))

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Date: Tuesday, 7 July 2015

From: Mounika V ([mounikav30@gmail.com](mailto:mounikav30@gmail.com))

Subject: **Detecting Eye Diseases with Help of a Smartphone**

Researchers at the Medical and Surgical Center for Retina, developed a software that detects eye diseases such as diabetic macular edema using a smartphone. The system is aimed at general physicians who could detect the condition and refer the patient to a specialist.

The software was developed in collaboration with biomedical engineers from the ITESM and uses the camera of the phone to detect any abnormality in the thickness of the retina. “The idea is to detect and prevent diseases in general practice. We are not replacing the specialist, we want to know which patients have a disease and make an early detection,” says Dr. Juan Carlos Altamirano Vallejo, medical director of the Medical and Surgical Center for Retina.

Using the software will reduce costs and streamline the Mexican health system. With just having the app on the cell phone and focusing the camera on the eye, immediate results will be obtained. “We start off the fact that it is much cheaper to prevent than to cure blindness.”

The app also has utility in rural communities, where expertise areas such as ophthalmology have not arrived yet because equipment to detect these diseases are expensive and so far only the visiting specialist can do this kind of diagnosis.

Software development has been satisfactory and is expected to soon be marketed and incorporated the basic health system.

For full article please visit: <http://neurosciencenews.com/smartphone-vision-software-2196/>

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Date: Thursday, 6 August 2015

From: Chandan Shettigar ([chandan.s@manipal.edu](mailto:chandan.s@manipal.edu))

Subject: **Hydrogel inlay may treat presbyopia with little effect on visual quality**

Implantation of a [corneal hydrogel inlay may treat presbyopia](#) with only moderate effects on the optical system, according to a study.

Twenty-two Korean patients with emmetropic presbyopia were included in the study. Raindrop near vision inlays (ReVision Optics) were implanted monocularly on the stromal beds of femtosecond laser-assisted generated corneal flaps of the patients' nondominant eyes in order to assess optical quality.

Preoperatively, mean uncorrected near visual acuity of the nondominant eyes was 20/129 ± 1 and mean uncorrected distance visual acuity was 20/25 ± 2. At 6 months postoperatively, uncorrected near and distance visual acuities improved to 20/35 ± 2 and 20/25 ± 1, respectively. The change in uncorrected near visual acuity was significant.

There was a significant difference during the myopic change time period, particularly with mean refractive spherical equivalent at 1 day postoperatively. Reading distance increased from 23.08 cm at day 1 postoperatively to 37.38 cm at 6 months.

Ocular and corneal aberrations were created by the change in corneal curvature; higher-order aberration changes were prominent in eyes with 4-mm pupils.

In patient satisfaction questionnaires, 82% of patients reported satisfaction with their near vision, 13.6% reported needing near glasses more often after surgery than before, and 40% reported presence of glare and a decrease in night vision.

"Further studies should be conducted to assess whether it would be more effective to insert the hydrogel inlay in an eye with slight myopia rather than emmetropia, along with accounting for the difference in reading speed of Asian patients between Korean and other languages," the study authors said. – by Kristie L. Kahl

Article source: <http://www.healio.com/ophthalmology/refractive-surgery/news/online/%7Bb48d3b75-491a-4a96-9de9-5cd034377191%7D/hydrogel-inlay-may-treat-presbyopia-with-little-effect-on-visual-quality>

Original Article source: <http://www.healio.com/ophthalmology/journals/jrs/2015-7-31-7/%7B3e843d6f-4a0d-4713-8661-86e29feaba6f%7D/hydrogel-inlay-for-presbyopia-objective-and-subjective-visual-outcomes>

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Date: Saturday, 15 August 2015

From: Alison Ewbank ([a.ewbank@iacle.org](mailto:a.ewbank@iacle.org))

Subject: **IACLE announces new contact lens course to educate future practitioners around the world**

The International Association of Contact Lens Educators has today revealed its New IACLE Contact Lens Course (ICLC), a comprehensive high-quality program for educators and their students compiled by the world's leading authorities in contact lenses.

The full revision and updating of the ICLC was announced at the 1<sup>st</sup> World Congress of Optometry taking place in Medellin, Colombia this weekend (14<sup>th</sup> to 16<sup>th</sup> August).

In a further announcement at the congress, IACLE President Dr Shehzad Naroo is to receive the International Optometrist Award from the World Council of Optometry in recognition of his outstanding contribution to the development of optometry globally.

The ICLC is the longest established, most popular and most important of IACLE's teaching resources, and is used by its members in educational institutions worldwide. The New ICLC will cover all aspects of contact lens education – from the anatomy of the cornea to the business of contact lens practice – in just five modules and 30 lectures in PowerPoint format.

Almost half of the revised lectures have already been completed and further lectures will be rolled out during other events in each of IACLE's three global regions: Academy 2015 in New Orleans, USA (7<sup>th</sup> to 10<sup>th</sup> October), Asia Pacific Optometric Congress (8<sup>th</sup> to 11<sup>th</sup> October) in Kuala Lumpur, Malaysia, and Netherlands Contact Lens Congress (13<sup>th</sup> to 14<sup>th</sup> March 2016)

'This has been a monumental yet rewarding task,' said Thite. 'It has made all of us work together along with the experts in each field. IACLE is thankful to them for their time and expertise. Educators and students will benefit immensely from the updated course.'

For a list of modules and authors, see below. A sample lecture is available to view at [www.iacle.org](http://www.iacle.org). IACLE members will have exclusive access to the New ICLC.

For further information, please write to Alison Ewbank ([a.ewbank@iacle.org](mailto:a.ewbank@iacle.org))

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Date: Monday, 17 August 2015

From: Jissa James ([jissa.james@indiavisioninstitute.org](mailto:jissa.james@indiavisioninstitute.org))

Subject: **Smart Glove to Guide Blind People inside Grocery Stores**

Researchers at Penn State are working on a smart glove that can help blind people shop at the grocery store. The idea came because figuring out what items are on the shelves is a major limitation blind people report as wanting to be able to overcome. There are products in existence that can scan bar codes and tell you what's inside the package, but they depend on the bar code facing the camera or laser used to scan it. The other problem is that these products don't help you find what you're looking for, but simply verify that what you're holding is the right thing.

The glove being developed at Penn State can actually guide the wearer to the exact item being searched for. The device contains a camera and vibration motors within it in different locations. The motors vibrate at different strengths, essentially pointing the user toward the direction it wants the person to go. The camera recognizes objects that are near and can further guide the hand to the destination.

The researchers have conducted initial experiments with blind people using the device and are planning on starting a new trial that will help refine the technology powering the glove and identify new possibilities where it can be applied.

Article Source: [http://www.medgadget.com/2015/06/smart-glove-to-guide-blind-people-inside-grocery-stores.html?utm\\_source=facebook.com&utm\\_medium=social&utm\\_campaign=buffer&utm\\_content=buffer491eb](http://www.medgadget.com/2015/06/smart-glove-to-guide-blind-people-inside-grocery-stores.html?utm_source=facebook.com&utm_medium=social&utm_campaign=buffer&utm_content=buffer491eb)

Original Article Source: <http://news.psu.edu/story/357788/2015/05/27/research/machine-vision-system-could-help-visually-impaired-shop-food>

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Date: Wednesday, 19 August 2015

From: Optometry Council of India ([info@optometrycouncilofindia.org](mailto:info@optometrycouncilofindia.org))

Subject: **Optometrists (Job Opening)**

Dr. Agarwal's Eye Hospital Limited has been promoted by Dr. J. Agarwal and his family members. The company was incorporated in 1994. The Hospital, after notching up an impressive success in Tamil Nadu, Andhra Pradesh and Rajasthan, is embarking on a major expansion program to increase its footprint to other parts of the country and internationally of its flagship facility at Chennai. We currently have vacancies in its current & planned international branches. Ideal candidates are:

- Having completed 10 + 2 + 4 years of Optometry program
- Having exposure to the latest investigations and instruments
- Ability to handle patients independently
- Male candidates
- More than 1 year experience
- Having OCI membership

Do visit our website: [www.dragarwal.com](http://www.dragarwal.com) for more information about the organization and current branches.

Interested candidates can send email their resumes to: [harish.l@dragarwal.com](mailto:harish.l@dragarwal.com)

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Date: Saturday, 22 August 2015

From: Abhishek Kalbarga ([abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org))

Subject: **Job Opening @ India Vision Institute**

**Position:** Senior Program Manager (Communications)

**Experience:** 5 years or more

**Qualification:** Degree in journalism / mass communication / Arts or Science

**Location:** Chennai

**Pay Scale:** 6, 50,000 INR – 8, 00,000 INR PA

**Job Type:** Full Time (Monday - Saturday)

**Job Description:**

- Manage all communication aspects of the organization including national & international conferences.
- Oversee all proposals, publications / newsletter and other printed / web based information
- Manage the website and other social media channels
- Manage specially assigned projects as required

Please mail your resume to Abhishek Kalbarga at [abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org)

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Date: Monday, 24 August 2015

From: Abhishek Kalbarga ([abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org))

Subject: **Situations vacant for Optometrist at India Vision Institute (Job Opening)**

**Position:** Program Officer

**Qualification:** Diploma / Bachelors in Optometry

**Experience:** Freshers to one year

**Location:** Chennai

**Pay Scale:** 2,00,000 INR – 2,40,000 INR PA

**Job Type:** Full Time (Monday – Saturday)

Job profile includes assisting in developing and implementing national level programs and other projects as assigned.

Please mail your resume to Abhishek Kalbarga at [abhishek.kalbarga@indiavisioninstitute.org](mailto:abhishek.kalbarga@indiavisioninstitute.org)

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India Vision Institute

Plot No 212, No 45, Palkalai Nagar,

7th Link Road, Palavakkam,

Chennai - 600041, TN, India

Tel. No. : +91 - 44 - 24515353.

Email: [ivi@indiavisioninstitute.org](mailto:ivi@indiavisioninstitute.org)

Web: [www.indiavisioninstitute.org](http://www.indiavisioninstitute.org)

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Administrivia:

**The OptDistList is a service provided by the India Vision Institute (IVI)**

**DistList postings are for informational purposes only and do not imply endorsement by IVI**

**Instructions for DistList postings are as below:**

**IVI invites contributions including latest updates and new developments in Optometry, innovative ideas, optometry job vacancies, conferences, links to interesting articles and other latest happenings.**

**All contributions need to be in word format (not more than two to three paragraphs including a title).**

**Send in your contributions with your name and contact details to [info@indiavisioninstitute.org](mailto:info@indiavisioninstitute.org)**

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