President’s Corner

Business Links: A survey of selected Clients confirm that Clients are pleased with Service and Support received from TRI. They complement delivery of reports on time and in the main the results met with their expectations. The dedication by Giorgiana and her team is recognized and appreciated.

Staff: The Institute continues to shape its technical staff with recruitment of Dr. Ernesta Malinauskyte to expand the Research Team. Ernesta brings a wealth of scientific skills and a new perception of hair and how to research new aspects and physics.

Regrettfully, we lost Giorgiana Giancola as she was offered a position in an Italian cosmetic company with manufacturing facilities close to her family home village. This was an opportunity she found hard to decline, and we will miss her. However, her Team remains and so does the technical skill and enthusiasm to meet client needs and deadlines. The opening allows expansion, and the restructuring of the Team is going well. We miss Giorgiana and have confidence she will succeed in her new role. Good luck Giorgiana, and thank you for what you have created at TRI; we will follow your career with enthusiasm.

Membership: The new Membership applications have been released, encouraging new members at low joining rates but with benefits that should encourage clients to join with us. The Web Site now carries a section dedicated to all our Members and accessible only through the Member Password; this password has been forwarded to our client contacts. Should members require the password, please contact either Eleanor Lehman (x4820), Alison Robinson (x4808) or David Graham (x4826); access will allow Members to review the latest series of Research Papers and Notes on Research.

Education: TRI held a very successful Conference on Applied Hair Science in June 2016 at Red Bank, NJ and we are already planning the same for 2018. By contrast in June 2017, Trefor Evans is planning a different symposium focused on Hair Measurement and involving quality techniques and experts in these techniques that we are hoping will complement the Applied Hair Science Conference.

Furthermore, TRI is also planning the annual hair-focused training course at the TRI site as well as the September training course on Advances in Skin Science to follow that successfully held in September 2016. This time, we intend to introduce the mechanisms and methodologies for delivery to the skin and into the skin. This is key to many delivery functionalities and we intend to expand the September 2017 skin-training course into this science.

2017 is looking to be a busy time for TRI and we fully appreciate the support and responses that our clients have given us.

Dr. David Graham; President
Events and Education

On November 29, 2016, Trefor Evans presented “Anti-Pollution and Hair” for the Cosmetics & Toiletries Webinar.

The November/December 2016 edition of Cosmetic & Toiletries includes an article by Trefor Evans entitled “The Perplexing Topic of Hair Type – How Do We Classify Hair?”.

The Cosmetic Chemist is a dynamic online resource dedicated to providing current and historical topics of interest to personal care scientists in both industrial and academic forums. The material published by The Cosmetic Chemist is contributed by highly recognized scientists. Trefor Evans was recently selected for their “Spotlight” article. Read more at this link: http://www.thecosmeticchemist.com/research_groups/trefor_evans.html

TRI was represented at this large recent meeting by Director of Research, Dr. Trefor Evans who gave a podium presentation in the Hair Care Technology session entitled “A unifying theory for visualizing the causes of hair breakage and subsequent strategies for mitigation”. Visit the TRI web site Research tab for a link to view the presentation or type this link into YouTube: https://youtu.be/WZTbScPxp8k

This was a truly international event which attracted approximately 2,000 participants. Technical presentations were spread over 12 sessions and comprised 82 podium presentations. There were also over 300 posters and a vendor exhibition hall.

In addition to Trefor’s presentation, the Hair Care Technology session contained the following 6 topics:

- Investigation of scalp skin disorders induced by physical and psychological stresses for a new approach to scalp skin care product – Kaori Saito, Mandom Corp.
- Evaluation of high lightness and low damage bleach for hair by AFM-IR – Yuki Nakamura, General Research & Development Institute, Hoyu Co., Ltd.
- Observation of hairs in various countries using synchrotron radiation imaging – Kosuke Watanabe, Milbon Central Research Institute.
- Addressing the epidemic of paraphenylenediamine sensitization by going forward into the past – Catherine Cartwright-Jones, Kent State University.
- New targets in the battle against dandruff – Estelle Long, Lucas Meyer Cosmetics.
- Flexible and elastic behavior in beautiful hair – Mikako Ezure, Kao Corporation.

TRI Attends the 29th IFSCC Congress in Orlando, FL (October 30th – November 2nd 2016)

A UNIFYING THEORY FOR VISUALIZING THE CAUSES OF HAIR BREAKAGE AND SUBSEQUENT STRATEGIES FOR MITIGATION

Trefor Evans, Ph.D
Director of Research and Institute Fellow
TRI-Princeton

tevans@TRI-Princeton.org

View Trefor’s talk on YouTube
TRI Seminar Series
TRI Princeton is pleased to invite you to join us as we continue our highly-regarded seminar series. These seminars, held at TRI, are free and open to the public.

- Dr. Trefor Evans, TRI Institute Fellow and Director of Research, will present “The Perplexing Topic of Hair Type” on April 6. Just how different is hair from the heads of various individuals? Is all hair essentially the same stuff that is extruded out of the scalp in different sizes, shapes and colors? Alternatively, are less-obvious, or hidden, factors present?

- TRI PhD intern Arianna Cozzi from Pavia University, Italy will present “Prevention of Photo-Induced Damages: Sunscreen Stability, Efficacy and Safety” on May 4. The interaction of UV filters with skin is studied. FT-IR and ATR-FTIR imaging are used to examine the modifications in ex-vivo pig skin and isolated stratum corneum under different conditions and their possible effects on the drug penetration pathway. Product safety, efficacy and the influence of different types of formulation are considered.

- The topic on June 7 is “Proteins Adsorbed at Interfaces” to be presented by TRI’s President Dr. David Graham. This aspect of colloid science affects just about everything.

Always have access to the latest information on our Education and Events by visiting the TRI website, www.triprinceton.org/educations.
Visitors to TRI may have noticed a rather dull picture in the library. It has been here for decades, back to the time when TRI meant Textile Research Institute. The picture was made by master weaver Michel-Marie Carquillai in 1844 to commemorate an event in 1841 involving Le Duc d’Aumale. The picture is of woven silk using a Jacquard loom. Joseph Marie Jacquard took a loom an invented an automated way of weaving intricate patterns using punch cards in 1801. Punch card technology was used in computing until the 1980’s. Only black and white threads were used by Carquillai but he packed them closely enough to suggest grayscale shading. If you are interested to know more about this technology, this 3.5 minute video from the Victorian and Albert Museum, London is a good start: https://youtu.be/K6NgMNvK52A. Recently, Southerby’s auction house sold such an article in London for some $60,000. These are rare articles with only a handful existing today hence we are keeping a keen eye of our own because it is excellent condition.