

VACUUM INSULATION PANEL



GLOBAL ASSOCIATION

NEWSLETTER September 2019

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VIPA International is a
Build Up Partner



IVIS KYOTO 2019

14th
International Vacuum Insulation Symposium
September 19 - 20, 2019, Kyoto, Japan



Dear VIPA International Member,

We are happy to share with you the latest news and projects our association is working on

We hope you can join the IVIS meetings in Japan this month and participate at the VIPA International General Assembly

Enjoy the reading!

With best regards,
Gregor Erbenich
President VIPA International

1. ASSOCIATION NEWS

1.1 Second VIPA International conference in January 2020 about transportation



Following the success of our first conference in Vienna in September 2018 (see press release [here](#)). VIPA International is now planning a second conference on Thursday, 30 January 2020, in Düsseldorf, Germany.

The event will take place alongside the Temperature Controlled Logistics conference (<https://www.pharmalogisticsiq.com/events-temperaturecontrolledlogistics>). A Task Force of

members is preparing the programme, topics and speakers. Should you have any suggestions please do not hesitate to share it with the office.

VIPA International members benefit from a 20% discount in the registration fees to the Temperature Controlled Logistics conference. In case you are interested, please email the office in Brussels.

1.2 New animated video on appliances

Early this summer VIPA International published a second video about the use of VIPs in appliances. The video is available on [YouTube](#) and on Youku. Subtitles are available in Mandarin, Japanese, Dutch, German, French and Slovenian.

The Digital Communications & Public Affairs Working Group plans to release a third video this year about VIPs used in the transportation sector. This video will be useful in promoting our next conference in Düsseldorf early next year. We encourage all members to distribute the video using their social media networks so we can increase the view count as well as the awareness to our technology.



Read press release [here](#).

1.3 VIPA International is a sponsor of IVIS in Japan

The 14th International Vacuum Insulation Symposium (IVIS) will take place in Kyoto, Japan, on 19-20 September 2019. The event is organised by the Kindai University. <http://ivis2019.jp/>

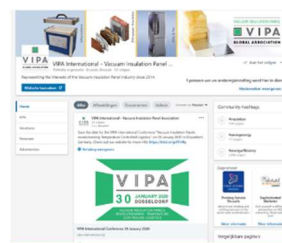
VIPA International is a platinum sponsor of the event. Our President, Gregor Erbenich, will be speaking at the opening session and many of our members will be participating at the different sessions throughout the two days.

VIPA International will organise its General Assembly one day before the start of IVIS in Kyoto. All members are invited to attend the meeting (from 16:30 to 18:00). The meeting will take place at the same venue of IVIS, the Kyoto Research Park. The General Assembly will be followed by a dinner with all attendees in central Kyoto.

1.4 Follow our LinkedIn page

The board agreed to focus efforts on communications activities in 2019. As a result, a LinkedIn page was created in March 2019 as an additional platform to reach out to members and interested parties and promote the activities of the association. In case you are not yet following our page, we strongly encourage you to do so. Please invite your connections to follow our page as well.

<https://www.linkedin.com/company/vipa-international-vacuum-insulation-panel-association>



1.5 New team members

The Kellen team working for VIPA International has gone through some changes. We are pleased to introduce you to two new team members:

Veerle Guns, Managing Assistant

Veerle studied office management at the Heilig Hart Institute, Leuven, Belgium. After her graduation, she studied languages at the Centrum voor Levende Talen (CLT) in Louvain. She speaks fluent Dutch, English and French. She also has a good knowledge of German and a working knowledge of Spanish. Within Kellen, Veerle works as a managing assistant for a number of clients including Association of European Automotive and Industry Battery Manufacturers (EUROBAT), the European Rental Association (ERA), the Association of European Candle Makers (AECM) and the International Stevia Council.

Inge Neetens, Communications & Regulatory Affairs Manager



Inge Neetens joined Kellen in January 2019 as part of the staff of EU salt for whom she was working for since 2018 as PR & Communications Manager. Previously she worked for 17 years as Sales, Marketing & Communication Manager in a Belgian company, active in the fashion industry. Prior to that, she worked for 10 years as a Communication Specialist at Nielsen market research. Inge has a Master in languages and translation in French and Spanish from the University of Ghent, Belgium. She is of Belgian nationality and speaks English, Spanish, French and her mother tongue Dutch.

1.6 New members



Panasonic joined as regular member in January 2019. Panasonic solutions for manufacturers brings strategic innovations to customers' product development to enable manufacturers to plan and build world-class solutions. Panasonic's industrial technologies range from electronic and automation components and devices, materials, batteries and a wide range of unique solutions. They provide manufacturers with the performance, quality and reliability synonymous with the Panasonic brand. **Oak Bridge National Laboratory** joined as academia member in June 2019.



Oak Bridge National Laboratory joined as an academia member in July 2019. Oak Ridge National Laboratory is the largest US Department of Energy science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy and security. Dr. Kaushik Biswas is a staff scientist at ORNL with 9+ years of building science-related R&D experience. His work is focused on building materials and systems R&D as well as building energy performance and durability analyses. He is interested in multi-disciplinary research and has a proven track-record of leading project teams with members from research organizations, academia and industry. His recent projects include development of ultra-high thermal resistance vacuum insulation panels, development of building composites containing vacuum insulation panels, and development of thermally anisotropic composites for directional heat dissipation in buildings

1.7 Standardisation of VIPs worldwide

European Standard prEN-17140

The CEN Technical Committee 88 (thermal insulating materials and products) Working Group 11 (vacuum insulation products - VIP) drafted the factory made vacuum insulated panels (VIP) for buildings specification (EN-17140). The standard was voted early 2018 but AFNOR, the French standardisation body, made an appeal. After some back and forth and some adaptations to the text, AFNOR decided to drop the appeal in October 2018. Since then the text has been going through internal approval process within CEN which involved an assessment by an external consultant (HAS Consultant). The assessment of the consultant included some requests for modifications on the standard

To be completed by Tadej

ISO standard

The ISO/TC 163/SC 3/WG 11 drafted the thermal insulation products for buildings — Vacuum insulation panels (VIP) — Products specification ISO/DIS 16478.3. The text was submitted to public enquiry for three times in 2018 and 2019 but it failed to get enough positive votes in order to be approved.

The ISO group is already working on a new draft and will have a meeting in Seoul, South Korea, right after IVIS on 23 September.

1.8 New study commissioned on thermal conductivity of fumed silica grades and behavior of fiberglass desiccants

VIPA International just concluded a contract with Avery Dennison Hanita for a study on effect of moisture content on the thermal conductivity of different types of fumed silica VIPs and behaviour of different types of fiberglass desiccants. The study was initiated this summer for a duration of one year. Avery Dennison Hanita is expected to deliver the final report by July 2020.

1.9 Latest Press Releases & Case Studies

Declaration of thermal performance of vacuum-insulation-panels (VIPs) for buildings according to the draft product standard prEN 17140 – 16 July 2019

https://vipa-international.org/download_file/FilePublic/17/declaration-of-thermal-performance-of-vacuum-insulation-panels-vips-for-buildings-according-to-the-draft-product-standard-pren-17140

Case Study: London Bridge Station Upgraded with Vacuum Insulation Panels - 29 May 2019

<https://vipa-international.org/news/london-bridge-station-upgraded-with-vacuum-insulation-panels>

Exciting year ahead for VIPA International, 21 February 2019

<https://vipa-international.org/news/exciting-year-ahead-for-vipa-international>

Insulation of interiors with Vacuum Insulation Panels: the 1 day jobsite challenge! – 29 January 2019

<https://vipa-international.org/news/insulation-of-interiors-with-vacuum-insulation-panels-the-1-day-jobsite-challenge-29-january-2019>

1.10 Website

Following the decision of the Board of the association that the association should focus on *digital* communications in 2019, a Communication Strategy has been developed by the Digital Communications & Public Affairs Working Group of VIPA International. Taking into account the objectives & target groups set by the Board (increase membership & raise awareness about the association with stakeholders, policy-makers and general public), this Working Group has assessed the current communication tools used by VIPA International and further tools & platforms that could be part of the communication strategy for 2019.

The current tools and platforms used for communication purposes are being optimized. All pages and sections of the VIPA International website have been reworked, updated and optimized for SEO purposes. In the graph, the blue line shows the website audience overview from 1/1/2019 to 15/8/19, the orange line shows the comparison with the same period last year.



1.11 VIPA International registered office Washington new address

VIPA International is registered as a 501 (c) (6) not-for-profit association incorporated under the law of the State of Delaware in the United States of America. The association has a registered office in Washington while the global office is in Brussels, Belgium. Both these offices in Washington and in Brussels are offices of Kellen, the association management company managing and representing VIPA International.

We alert you to a change of address of our registered office in Washington: National Press Building, 529 14th Street NW, Suite 1280, Washington, DC 20045

The Brussels office address remains unchanged.

2. POLICY NEWS FROM EUROPE

Update on [Energy Performance of Buildings Directive \(EPBD\)](#)

In May-June, the European Commission has published two series of recommendations specifying how Member States should implement certain aspects of the Energy performance of buildings directive (EPBD) 2018/844 to national law.

The [recommendations on building renovation](#), include insulation related suggestions:

- energy performance related measures to contribute to a healthy indoor environment, higher levels of comfort and well-being for occupants including for instance complete and homogenous insulation, coupled with the appropriate installation and adjustment of technical building systems.
- rental property restrictions related to energy performance should be used to encourage the renovation of energy-inefficient buildings. They give as an example the Flemish Housing Code and the roof insulation obligation.

Member states have until 10 March 2020 to transpose the new and revised provisions of the directive into national law. For this effect, they might use these recommendations just issued by the European Commission.

Update on Energy Efficiency Directive

In its July package of infringement decisions, the Commission decided to send reasoned opinions to **Austria, Germany, Slovakia, Spain, Sweden,** and the **United Kingdom** requesting the correct transposition of EU energy efficiency rules (**Energy Efficiency Directive** , [Directive 2012/27/EU](#)) into national law and its proper implementation. The Member States concerned now have two months to respond to the arguments put forward by the Commission. Otherwise, the Commission may decide to bring the matter before the Court of Justice of the EU.

Agora Energiewende - European Energy Transition 2030: The Big Picture

The report is presented as a basis to understand where we are heading in Europe. The European Energy Transition 2030 is a political project that will demand European politics to address key issues to make it happen. In the report they suggest ten priorities and four flagship initiatives. The report is complemented by a technical document that translates the recommendations into a concrete work plan for the new Parliament and the new Commission. In the report: *Transforming the buildings sector for 2030 One of the four strategies for 2030 is to modernize buildings to improve efficiency. In order to transform the buildings sector in a cost-effective way, final energy demand will need to be reduced by 25% by 2030. This will be achieved for the most part by improving the thermal integrity of building shells and upgrading heating appliances to more energy efficient units.* [Download](#) the full report here.

EASME - Energy Efficiency Work Programme for 2020 - published beginning of July. Almost €120m will be available for energy efficiency projects under the areas of 'Buildings in Energy Transition' and 'Smart and Clean Energy for Consumers'.

With a total of 18 topics in these priority areas, the work programme features a new focus on "**Buildings in energy transition**", highlighting how decarbonisation of buildings constitutes the major challenge of the next decade. At the same time, it continues to focus on digital and smart technologies and innovative financing for energy efficiency as well as supporting public authorities and ensuring the active involvement of consumers in the energy transition. More information on deadlines and topics on the website: <https://ec.europa.eu/easme/en/news/energy-efficiency-work-programme-2020-has-just-been-published>

3. POLICY NEWS FROM ASIA

The Chinese national standard “Vacuum Insulation Panels” has been published

The Chinese national standard “Vacuum Insulation Panels” GB/T 37608-2019 has been published on 4 June 2019. The standard is drafted by Nanjing Fiberglass Research & Design Institute, together with many other institutes, colleges, producers and users over 3 years and the project was finished successfully and will be put into force at 1st May, 2020.

The national standard “Vacuum Insulation Panels” GB/T 37608-2019 includes the range, terms & definitions, classifications & marks, demands of technique, test methods etc. The standard is for the VIPs applying to the architecture and industry in range of -40°C~70°C. The standard refers to the important terms such as center-of-panel thermal conductivity, effective thermal conductivity and service life, which show the key concepts of VIPs to the users and producers objectively. Also, the standard has detailed descriptions to the classifications & marks which include:

- purpose
- classification of center-of-panel thermal conductivity
- core materials
- gas-blocking diaphragm bag
- size: length*wide*thick
- other marks such as business code

With the classifications and the examples, we are able to know the specifications of the products clearly. The standard mentioned the appearance, size deviation, warpage, diagonal difference and other physical properties, which include:

- center-of-panel thermal conductivity(4 grades according to different values)

- puncture strength
- thermal conductivity after punctured
- hygrothermal ageing resistance.

The standard has different requirements for building applications and industrial applications. For the architectural application, there are more requirements like

- tensile strength perpendicular to surface
- dimensional stability
- combustibility level
- thickness change rate after punctured.

The standard also refers to the terms of center-of-panel thermal conductivity and the service life of VIPs, and provides the test methods. It helps the industry to evaluate the performance of VIPs scientifically.

The publication of this standard fills the gap of Chinese national standard of VIPs, and the implement of the standard will regulate the order of the market, and promote the industry of VIPs in China.

VIPA International Office

For any queries please contact the office in Brussels:

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Inge Neetens

Veerle Guns