

International Federation of Hospital Engineering

Dear IFHE associates:

As we can see "time flies", 2016 is already nearing the end. So, it is a good moment to lookback and see which the things to be thankful for and also make a reflection on what are the opportunities to come and do better.

In our IFHE review, we may say that we had a very good year. Firstly, a successful congress in The Netherlands gave us the opportunity to meet each other again and also to welcome new member countries. The main objective of the congress was attained: "sharing knowledge for a better healthcare world wide"; but most importantly, new ideas, projects and plans in which we have to put all our effort and imagination to make it real born here.

Furthermore, we had the chance to not only say thank you to our ex-president but above all goodbye to our good friend Ole Rist from Norway, who sadly passed away a few months after the Congress. His integrity, love and co-operation with IFHE will be a constant example of commitment to the task entrusted.

Nowadays, we can affirm that our Federation is increasingly accepted and appreciated worldwide; this gave us a big commitment to continue the work we have done and remind us of the importance of growing cooperation with colleague and associations in healthcare around the world.

Then, we are very satisfied with the improvement and mindful of the IFHE, however, the coming New Year is an opportunity to encourage the social, economic and ecological challenges that we face in terms of healthcare systems in each country, because although each associate has a different situation before them, we are sure that sharing successful experiences in some countries will help you to provide solutions in others.

2017 must be a year in which we have to make great strides, starting with: to promote our association, sharing knowledge, organize more healthcare study projects, joining to different working groups in IFHE, browse companies who are interested in promoting and helping in order to allow all these activities, but overall understand that, this can only be possible with the work, collaboration and imagination of everybody.

Finally, the Exco of IFHE wish you all the time for reflection on the past and to the present; wish you health, energy and strength for the coming days; we wish that you can find the support and answers that you need in healthcare themes.

To every IFHE member and all our friends, have a Merry Christmas and a Happy 2017.

Douwe Kiestra
President





IFHE NEWSletter Issue 2016/3 December 2016

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The Facility Guidelines Institute

The US A-member to the IFHE is the Health Care Institute (HCI) (<http://www.hcinstitute.info/>). The Health Care Institute is organized within the International Facility Management Association, IFMA.

HCI is reaching out to the international community, through the vehicle of the IFHE, to talk about our commitment to environmental sustainability in general, and climate protection in particular.

Recent events in the United States, most notably the election of our new President, have thrown the US Commitment to working with the rest of the world on Climate Issues into question. The HCI, though, recognizes the overwhelming scientific consensus on the need to action on climate. We recognize, with the Lancet, the WHO, and IFHE, the Pope, and many others, the fundamental importance of caring for the health of this planet by eliminating our reliance on burning fossil fuels. And, we are not alone. Remember, more people voted for Secretary Clinton than for the current US President; it was through our electoral college rules that Mr. Trump was elected President.

HCI is in the process of drafting our own environmental policy, to work in tandem with that of the IFHE. We are grateful to the IFHE for your leadership on this issue, and we look forward to being partners with IFHE and other member countries to bring the fossil fuel era to an end.

As participants in health care, our first obligation is to do no harm. We are with you.

Partnership to Advance Clean Energy

In 2009, the then Prime Minister of India signed an MOU with President Barak Obama – the Partnership to Advance Clean Energy, or PACE. The MOU promised that the two countries would invest significant monies and intellectual resources to develop building energy efficiency solutions relevant to both countries.

Pursuant to this agreement, the governments established the joint US-India Center for Building Energy Research and Development (<http://cberd.org/home/>). This initiative brought together research institutions and industry partners from both nations to create energy efficiency solutions that are relevant to both countries, and, ultimately, to the world. Some of these solutions were specifically targeted at the healthcare industry, and many are relevant to the healthcare industry, though of a more general focus. In particular, one



initiative aimed to establish parameters for the development of a simplified Energy Information System ([final report available here](#)) for hospitals. The idea was to vastly reduce the costs to implement such systems, thus giving more people better visibility and control of their consumption. CBERD created a parallel EIS for hotels, and has already rolled out some pilot sites.

One of the industry partners for this effort is the engineering company Mazzetti. The CEO of that company serves on the ExCo of the IFHE, and is looking to partner with hospitals around the world to implement pilot projects. Contact Mr. Walt Vernon, at wvernon@mazzetti.com for more information.

IFHE Article 3

Lets talk about the environment

The Facility Guidelines Institute (FGI- see <http://www.fgiguidelines.org/>) is an all-volunteer NGO in the United States, dedicated to researching and publishing guidance for the planning, design and construction of effective healthcare buildings.

This organization has published the Guidelines for the Design and Construction of Healthcare facilities for three decades. FGI updates the Guidelines every four years. The current, 2014 edition consists of one book for Residential Facilities, and a second for Hospital and Outpatient facilities. For 2018, the Guidelines will be in three books; Residential, Outpatient, and Hospitals. For 2018, FGI is working to establish much more rigorous evidentiary foundations for its requirements.

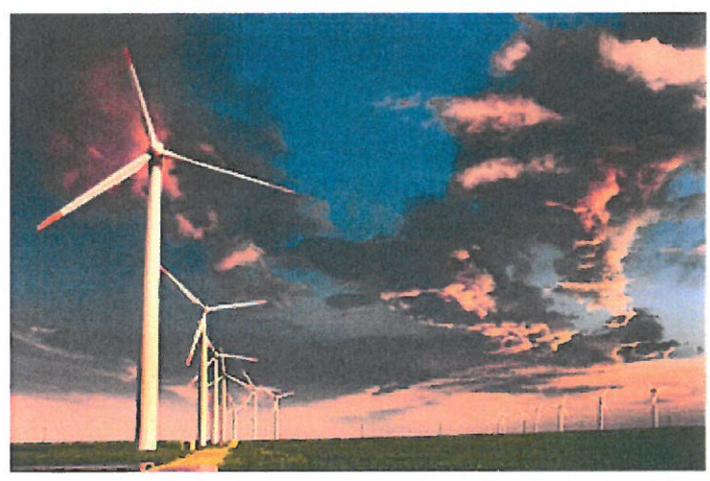
More important the FGI documents have historically been aimed at minimum requirements for the US market. Moving into the future, FGI is making two important shifts. First, FGI will begin to publish both minimum (or Fundamental) requirements, as well as Beyond Fundamental guidelines. The latter will provide building owners with a much broader palette of design solutions to help them do what's right for their particular situation.

Second, FGI is considering the creation of one or more papers for international application, including at least one for application in low-resourced areas.

You can access the current versions of the Guidelines, including a Public Comment version now being considered (comments are due in December 2016) on the FGI website. If you are interested in working with the FGI to help develop internationally relevant Guidelines, please contact Mr. Walt Vernon, Chair, FGI Research and Development, at walterv@mazzetti.com.



SAVE ENVIRONMENT





I. F. H. E

**International Federation of
Hospital Engineering**

ENVIRONMENTAL POLICY

Adopted by IFHE Council in Turku, Finland on 01 June 2015

Version 1.1

IFHE Environmental Policy

Introduction

The International Federation of Hospital Engineering (IFHE) is a global membership body supporting national member associations to promote safe, efficient, effective and environmentally sustainable facilities management in the Healthcare and Hospital context. IFHE takes note of the World Health Organization (WHO) statement that “Climate change is the greatest threat to global health in the 21st century¹,” and that “A ruined planet cannot sustain human lives in good health. A healthy planet and healthy people are two sides of the same coin.²”

Healthcare Facilities Management Context

Healthcare Facilities Management includes the design, development, construction, commissioning, maintenance, and operation of the built environment in which healthcare services are delivered.

The ongoing operation of a healthcare facility in accordance with the original design and commissioning criteria is essential to maintain and continually achieve improvements in efficient operation.

Sustainability in the Healthcare Context

Sustainability is the application of effort during design, construction and operation to reduce energy and water consumption and minimise waste output, without compromising safety or negatively impacting patient outcomes. Sustainability should be achieved by the application of measurable targets with regular and accurate monitoring, and should also reduce financial impacts.

Healthcare facilities should be planned, designed, constructed, and maintained so as to minimize, eliminate, or reverse negative impacts on the natural environment both locally and globally.

¹ <http://www.who.int/globalchange/global-campaign/cop21/en/>

² <http://www.who.int/dg/speeches/2015/climate-change-paris/en/>

IFHE Environmental Policy

Background

Studies indicate that climate change is impacting public health, creating evolving challenges for healthcare organizations and facilities.³ Other studies indicate that the built environment must become part of the solution, mitigating their impact on global environmental health.⁴ Finally, global trends in disaster management indicate that catastrophic events associated with extreme weather events linked to the effects of climate change are having a considerable impact on healthcare facilities, and that healthcare organizations and facilities must also increase their resilience to face these challenges.⁵

The IFHE at its Council Meeting in Kuala Lumpur, Malaysia in 2013 agreed to make a concerted effort to provide opportunities for the IFHE community to benefit from the experiences and knowledge of its members and associates. In particular this includes supporting both emerging and developed countries to address these issues in advocating for change. It was agreed that a policy position needed to be developed to establish a framework and action plan to provide this support. The IFHE adopted the first version of this policy at its Council meeting in Turku, Finland in 2015, and will continue to stay abreast of global issues by regular reviewing this policy and assessing progress against its stated objectives.

IFHE Policy Statement

Congruent with the WHO, the IFHE believes that in the global context and alongside patient safety, environmental sustainability in Healthcare Facilities Management is the issue of most significance to be promoted. The IFHE will make every opportunity to promote Environmentally Sustainable outcomes to its member associations.

³ <http://www.who.int/globalchange/environment/climatechange-2014-report/en/>

⁴ *Nature Climate Change*, Vol. 5, December 2015, pp. 1057-1060

⁵ http://www.eenews.net/assets/2014/12/15/document_pm_02.pdf

IFHE Environmental Policy

IFHE Objectives

The International Federation of Hospital Engineering will:

- Ensure that environmental sustainability is given appropriate coverage in its activities;
- Develop and promote publications that will draw attention to issues of environmental sustainability and will showcase projects and lessons learnt from the global experiences of its member countries. This will continue to be done through its official publication, the IFHE Digest and its associated Journals and Bulletins;
- Use its web-site and other social media platforms to promote awareness of environmental sustainability;
- Ensure that the bi-annual IFHE Congress will always have environmental issues and sustainability as subjects for promotion, education and shared learning;
- Make and use opportunity for promotions in appropriate public media to encourage an awareness of environmental issues in the healthcare sector;
- Advocate for change in areas of influence through member organisation, and globally through international bodies [eg World Health Organisation (WHO) and the United Nations (UN)];
- Seek, develop and maintain partnerships with other associations, research and academic institutions and experts to promote environmental sustainability;
- Support members to focus on sustainability by education, promotion and information sharing;
- Establish a specific role or appoint a specialist project officer to coordinate this work on behalf of the IFHE;
- Develop technical and practical recommendations on issues of environmental sustainability in healthcare facilities.

Version 1.1.

Adopted by IFHE Council 17th April 2016.



From General Secretary

Happy Christmas all IFHE colleagues. In connection with this Newsletter main topic Sustainability some thoughts:

It's that time of year again, Christmas, a time for thinking of family and friends, eating, drinking and celebrating. Lets spare a thought at this time and think of the things that we can do to help protect the environment. A little thought and care can make a big difference towards avoiding damage to our environment without spoiling your celebration.

POSTIIVE EFFECTS:-

Polluting industries often cease their activities during the holidays, and the atmosphere, land, and water are able to recover a little from the effects of pollution.

When the amount of commuting to and from work is reduced, there is a corresponding reduction in motor vehicle emissions.

Christmas motivates many people to donate to charity, including charities working to mitigate environmental damage.

NEGATIVE EFFECTS:-

The exchange of consumer products in Christmas wrapping, many of which will be unneeded and/or unappreciated, contributes to the sending of consumer waste to landfills, unless consumers choose to regift them.

The cultivation of Christmas trees for display during a few weeks, before they are sent to landfills, represents a monoculture which sometimes reduces the use of arable land for agriculture.

Artificial Christmas trees are manufactured by processes which may have harmful effects on the environment.

Christmas decorations for homes and for Christmas trees are consumer products which are sometimes discarded to landfills.

Electric Christmas lights consume electricity, which, by most means of production, harms the environment. But remember candles and oil lamps can be fire hazards.

Increased travel to visit friends and relatives generally involves the consumption of fossil fuels.

One solution to counter the negative effects is alternative giving to help you to save money, reduce your Christmas carbon footprint and have a more eco friendly and sustainable Christmas.

Some manufacturers and retailers have developed new ranges of less environmentally damaging products in response to consumer interest and demands. Support these efforts.

When buying gifts check that they have not been manufactured using cheap labour in sweatshops in third world countries. Read labels carefully. Be aware of false or misleading



claims that products are safe for the environment. Try to wrap presents with ribbon or string instead of sticky tape.

GIFTS:- This year why not give a gift with a difference?

- Young trees.
- Bulbs or seeds.
- UBiee Power Pills
- Non-violent toys.
- A homemade gift. (Yule Log, centre piece, jam etc)
- A gift of your time e.g. using your skills of baking, baby-sitting etc.

CHOOSE:-

Good quality products that will last. Products with a long life symbol keep the energy used in manufacturing new goods to a minimum and avoid the creation of waste.

Products that do not contain CFC's. Check that sprays and similar products are clearly marked "CFC- free." or "ozone friendly." CFC's damage the ozone layer.

Cosmetics, which use natural materials, preferably from companies, which will refill the bottle so it can be used indefinitely.

Soy, beeswax or natural vegetable-based candles as they biodegrade, are smoke-free, and so more eco friendly.

DO NOT CHOOSE:-

- Disposable products.
- Products with excess packaging. Buy unwrapped items and wrap them simply rather than buying over packaged goods.
- clothes made from natural fabrics such as cotton, linen or wool. Some outlets now promote garments made from environmentally friendly cotton.
- Stationery and other paper products made from recycled paper.
- Books from the large range dealing with environmental issues.
- Paraffin candles are made from petroleum residues so neither do your health or the environment any good.

RECYCLE YOUR UNWANTED GIFTS:-

Unfortunately everyone receives at least one unwanted gift at Christmas. Recycle my unwanted presents to charities, local hospitals and hospices they are often very pleased to receive unwanted smellies to give to patients.

CHRISTMAS CARDS:-



An estimated 1.7 billion Christmas cards are sent each year in Britain alone, the equivalent of 200,000 trees, and around 1 million Christmas cards are thrown away every year. There's no point recycling rubbish if you don't buy recycled products! Purchase wrapping paper and Christmas cards printed on recycled paper from charities that donate up to 20% to less fortunate people at the same time.

Recycling all our cards, wrapping paper, bottles, cans and even Christmas trees will mean less waste going into landfill sites that are filling up fast.

TOYS:-

Buy good quality toys that will last and can be used again and again. Choose wooden toys over plastic ones. This will help to reduce the amount of energy needed for manufacturing and to avoid the creation of waste.

- Whenever possible, buy toys that can be run from mains rather than from batteries.
- Pick games with an environmental theme, which help children appreciate the value of our environment and how important it is for us to protect it.
- Avoid poor quality toys and disposable toys.

BATTERIES:-

Millions of batteries are used every year, the range toys and equipment requiring them is increasing all the time. Many batteries contain hazardous materials, including cadmium and mercury and can cause pollution in disposal.

DO:-

Use mains power wherever possible. Remember that manufacturing batteries can take up to 50 times more energy than the batteries can provide. Mains electricity is many times cheaper than batteries.

- Switch to using rechargeable batteries. A battery charger can make a useful Christmas gift.
- Look for batteries that are free of mercury and cadmium.
- Dispose of batteries carefully.

ENTERTAINING AND FOOD:-

Having a big crowd over for Christmas dinner can make it tempting to use disposable products. Don't use plastic containers. Plastic leaches chemicals into food, especially when heated, so even if you store food in plastic transfer it to glass before reheating. If possible forget disposable plates and utensils altogether. Try to buy organic fruit and vegetables. Although they are a little more expensive, they are grown without artificial fertilisers and pest-repellents, which can cause so much harm to the environment. Throw those vegetable peelings on your compost heap and make some natural fertiliser for your garden next year. Organic turkeys taste better too try to make sure it has been reared in humane conditions.



Shop at farmers markets or buying direct from the farmer is far cheaper than buying organic in the supermarket. Think of the benefits – the taste of chemical-free food, the reduction in food miles and CO2 emissions, and reduced dependence on oil. Buying locally produced food also boosts rural jobs. If demand for organic produce grows, they will be grown in larger quantities and the prices will start coming down.

TRAVEL:-

Getting to your destination is half the battle, but the other half is what all of our travel does to the environment. If you can avoid flying, particularly short-haul flights, do so. Buses and trains are less expensive, and can be a bit of an adventure because you actually get to see things along the way. Regardless of your mode of transportation, consider offsetting your emissions. The money you pay for offsetting goes to projects that reduce carbon in the atmosphere, like reforestation and renewable energy.

CHRISTMAS CLEAR OUT:-

When you are clearing up after it is all over, pay attention to what waste is being generated. Remember to avail of recycling schemes for disposing of paper, glass and cans. Bring empty bottles to the nearest bottle bank and cans to the nearest can bank. Reduce, Reuse, Recycle
With a little planning we can all have a wonderful Christmas and make a difference to the environment too.

And see you all in 2017.

Seasons Greetings

IFHE-EU BOLOGNA 2017

Welcome to Bologna in May 2017 for the 7th European Congress for International Federation of Hospital Engineering

The SIAIS (Italian society architecture and engineering for health) association of Italian Hospital Engineering is proud to organize the 7th Congress of IFHE-EU, the bi-annual conference of IFHE Europe, the European branch of the International Federation of Hospital Engineering (IFHE), which comprises more than thirty hospital engineering associations from all continents.

IFHE Europe was founded in 2005 in Strasbourg and unites the associations from twelve countries: Belgium, Germany, Finland, France, the United Kingdom, the Netherlands, Austria, Norway, Italy, Portugal, Switzerland and Spain. Since then the conference has been held with ever more resounding success in Baden-Baden, Vienna, Goes, Paris, Bern and Turku.

Year 2017 congress will be held in Bologna Italy 29th to 31st of May as an international congress together with an annual national congress of the Association of Italian Hospital Engineering (SIAIS).

The IFHE-Europe is now the biggest event of its kind in the European region and can be seen as the most important platform for the discussion of hospital-specific technical topics.



RIO DE JANEIRO, BRAZIL
IFHE
2017

“Hospital environment for patient and worker safety”

PROGRAM

August 27 2017

IFHE Executive Committee Meetings

August 28 2017

IFHE Council Meeting
Pre Seminar WorkShop

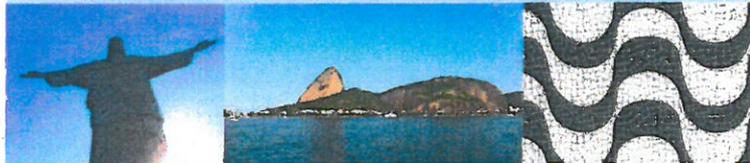
SAVE
THE DATE!

August 29 and 30 2017

Internacional Seminar

August 31 and September 1 2017

Technical and Cultural Visits



Associação
Brasileira para o
Desenvolvimento do
Edifício
Hospitalar



IFHE - International Federation
of Hospital Engineering



Please join IFHE on Facebook www.facebook.com/groups/The IFHE

IFHE AND 'A' NATIONAL MEMBERS' WEBSITES

Members are requested to keep IFHE informed about changes in contact details and website addresses.

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| A007 ASHE USA www.ashe.org | A008 NZIHE New Zealand www.nzihe.org.nz |
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"Healthcare Engineering creating effective and efficient care world-wide".

Your sincerely

Gunnar Baekken

IFHE General Secretary

