

3rd Edition
COMPOSITES ASIA 2018

COMPOSITES IN ARCHITECTURE AND CONSTRUCTION

TRENDS • INNOVATION • MARKET OPPORTUNITIES

2 Days Conference 18 - 19 July 2018
Chatrium Hotel Riverside, BKK And Chulalongkorn University



COMPOSITES ASIA

TRENDS • INNOVATION • MARKET OPPORTUNITIES

Since 2016, the Thai Composites Association has initiated and co-organized with JEC Group an annual International Composites Conference in Thailand. This year it is our 3rd conference which focuses on Composites application in Architecture and Construction.

Composite is an advanced material which is developing fast alongside traditional materials like Metals, Concrete, Wood and Plastics. Composite materials offer several unique characteristics including light weight, freedom of form, weather and corrosion resistance, thermal insulation, durability and many more.

Composites are widely used in several other key markets including aerospace, wind energy, automotive, transportation, marine, sports and leisure. The topic of focus each year of this international composites conference is therefore rotating along these market segments. From Rail and Transportation in 2016, Automotive in 2017 to Architecture and Construction this year. Please let us know your preference for next years' focus.

We have seen a good development within the composites industry in Thailand in recent years including increased investment and growth of member companies and more connection and cooperation between industry – governmental – academic sectors. These developments are reflected in this annual conference with great participation in the table top exhibition. Composites Asia serves as an excellent platform for networking. It is a good opportunity for the executives of composite companies in Thailand and the region to meet and connect with each other.

Welcome to

“COMPOSITES ASIA 2018

Composites in Architecture and Construction”

Danu Chotikapanich

Events Director

Expand your Knowledge & Network



Conference program

The program will cover different aspects of fiber reinforced plastics and fiber reinforced concrete application in the architecture and construction sector from architectural design, engineering design, fabrication and project management. Fire Smoke Toxicity (FST) is another key aspect which will be covered by both presentations and demonstrations. The focus on the first day will be more on architectural aspects while the second day will provide in-depth technical presentations aiming more for engineers and composite industry fellows.

Table - top area

Explore innovative projects, solution and services in the composite industry. Discuss new trends, exchange views on best practices and network regionally and internationally with the sponsors.



Networking events

Networking Reception: at River Barge Terrace, Chatrium Hotel Riverside, Wed July, 6 - 8pm. Speakers, Sponsors and VIP guests are invited to a private evening reception. Organized and hosted by TCA and JEC Group, this reception represented an exclusive event allowing for more networking and business opportunities. Participants will be able meet key contacts and engage in productive meeting.

Networking Break: Connect with the industry's key decision-makers during the breaks.



08.30 - 09.00

Registration

Welcome Speech by President of Thailand Composites Association



Danu Chotikapanich

President of Thai Composites Association, Thailand

COBRA CEO since 2005 - the leading manufacturer of premium Windsurf, SUP, Kite and Surf boards, and a global supplier of composites for the Architectural, Automotive, Transportation and Luxury Accessories markets.

Is Construction the Most Promising Sector for Composites?



Frédéric REUX

Media Director and Editor-in Chief, JEC Group, France

He has more than 28 years' experience in the trade and technical press business, working successively in the fields of Building & Construction, Science, Beverage & Bottling, and Packaging before joining the Composites world.

Architectural Project Showcases in Composites



Dr. Amer Affan

Owner and Foundation, Affan Innovative Structures, UAE

Born in Damascus, Syria

Went to school in England, Graduate of Cambridge University, Trinity College, with a Phd in Structural Engineering in 1987.

Worked in England and Germany before settling in Dubai in 1995.

Founded Affan Innovative Structures in 2004.

Successful Composite Designs in Architecture and Civil Projects



David Firth

Senior Structural Engineer, Diab, Australia

David Firth is a qualified Naval Architect and has worked in the composite industry for 20 years with hands on practical experience and engineering design experience.

David has worked on the engineering of houses, large buildings, road tankers, chemical storage equipment, underground water storage and industrial process equipment.

10.30 - 10.50

Networking Break

Conference Program Day 1

📍 Chatrium Hotel Riverside, Bangkok



New Architectural Typology

Duangrit Bunnag

Owner and Founder, Duangrit Bunnag Architect Limited, Thailand

He has been building his own practice focusing on many design hotels, resorts, commercial and residential projects and has received several recognitions including; ARCASIA Awards for Architecture 2015 : Gold Medal , Best Hotel by Wallpaper Design Awards 2014, ARCASIA Award for Architecture 2013 : Gold Medal , ARCASIA Gold Medal in 2005 and the UK's FX Award in 2000. Now he is a chairman of the committee board for Creative District Foundation, for the intention of sustainably develop the city on creative economy.



Composites in Future Smart Cities

Stephen Smith

Regional Sales & BU Manager, Exel Composites, Australia

Mechanical Engineer from the Automotive industry in the UK.

Based in Melbourne, Australia. Experience in sales and business development positions in the advanced materials industry for over 25 years, including 15 years in the advanced ceramics industry with ICI Advanced Ceramics (Now Morgan Advanced Ceramics) and 11 years in composites industry with Exel Composites.

12.00 - 13.30

Lunch Break



Large Span and Self-Supportive Advanced Composite Structures

Dr. Mark Hobbs

Head of Structural Engineering, Premier Composite Technologies LLC, UAE

Mark Hobbs interest in lightweight materials and marine structures initially lead to a position at Gurit where he worked on a wide range of projects in the marine, architectural, civil and underwater power markets.

Mark joined Premier Composite Technologies as Head of Structural Engineering. He currently leads a team of structural engineers working on large scale advanced FRP structures, and enjoys continuing to find new challenges for these exciting materials.



CFRP Enclosures Using Precast Concrete – “The Ideal Wall” System Solution

John M. Carson

Executive Director, Altus Group Inc., USA

Mr. Carson is currently a Board Member and Executive Director of Altus Group, Inc.- a “for profit” corporation owned by its founding members which is focused on precast technology development, licensing and innovation. It is comprised of 19 of the leading precast concrete firms in North America, several International Affiliates, and Strategic Innovation Partners. AltusGroup members have over 35 manufacturing plants and total group revenues exceeding \$1 Billion.

14.30 - 15.00

Networking Break

Conference Program Day 1

📍 *Chatrium Hotel Riverside, Bangkok*

Sustainable Composites in Building & Construction - Interior/ Exterior Fire, Smoke and Toxic Fume Safety & Energy Savings.



Ms. Latha Ekambaram

Marketing, Strategy & Distribution Business Manager, MENA, Australia

Ms. Latha Ekambaram is a results-driven engineering professional with MBA in Marketing. She has over 20 years of accomplished track record of success in Sales, Marketing, Distribution Management and Business for chemical and industrial products.

Based out of Dubai over the last 5 years she has been involved in introducing and specifying Fire, Smoke and Toxicity product range across several prestigious projects in the GCC, Africa and S.East Asia region by working closely with Architects, Consultants and Contractors.

Thermoplastic Composite for Next Generation Residential House Application



Justin Jin

Managing Director, Axia Materials, Korea

Justin Jin joined Samsung Chemical Group R&D Center for engineering polymer development and from 1998 he worked in DuPont Engineering Polymer division until he founded Axia Materials Co., LTD. In 2000.

Since the foundation of Axia he has been working for 18 years as managing director as well as one of the key engineer of Axia. He is a joint inventor of the Axia's 26 globally registered patents. His area of expertise are polymerization, composite design, process, and business strategy development.

The Evolution of Constructive Systems in Composites



Gilmar Lima

G12 Innovation, Brasil

Gilmar has an experience of 36 years in Leadership, People Management, Strategy and Engineering Plastics, including Reinforced Composites. Acting in different companies such as TAURUS, HIDROPLAS, MARCOPOLO, and MVC, Gilmar assumed several leadership roles and acted in different segments, from automotive to aerospace.

He is currently President of ALMACO (Latin American Association of Composite Materials), Mentor of Innovation of the Share Institute and leads G12 INNOVATION. Gilmar recently won his fourth JEC Innovation Awards, the most coveted prize in the composite segment worldwide.



Erivelto Mussio

G12 Innovation, Brasil

Professional graduated in business administration, architecture and with MBA in Business Transformation Management. He has 14 years of experience in development of solutions by reinforced composite applied to civil construction. He worked as an engineering and market development manager for the MVC company and currently is part of the G12 Innovation team. Participated in some projects of international recognition, as is the case of the ceiling system of Carrasco airport in Uruguay and the winner of the JEC Award Innovation 2018 - Wet Core POD.

16.30 - 18.00

Networking and Exhibition

18.00 - 20.00

VIP Reception (by Invitation Only)

Conference Program Day 2

📍 2nd floor, Building 4, Faculty of Engineering
Chulalongkorn University, Bangkok

08.30 - 09.00

Registration

Addressing the Challenges of Engineering Composite Civil Structures



Julien Sellier

Founder and Managing Director, StructTEAM, UK

Highly entrepreneurial and passionate about composite materials and their applications, Julien established the company in 2010 to develop innovative and ground-breaking solutions for clients in civil engineering, renewable energy, marine, automotive and transportation.

Eight years on, STRUCTeam is a firmly established player within the wind energy sector providing composite engineering services, technology transfer and consultancy, as well as working closely with several trusted partners to create supply chain efficiencies for an international customer base.

Structural FRP Composites in Architecture and Urban Design



Tony Stanton

Engineering Manager, Gurit, New Zealand

Tony Stanton is the Gurit Engineering Manager for the APAC region with 18 years of experience in design and structural engineering with a specialisation in composite materials.

As engineering manager for Gurit Asia Pacific, he oversees a team of composite structural engineers and a composites materials testing laboratory, based in Auckland, New Zealand that serves the Australasia, South and East Asia, China and India.

Tony has been involved in a wide variety of projects, enabling the adoption of light weight composites into new and varied applications. The integrated skill set of engineering analysis, materials and processing knowledge is key to the successful adaption of composite materials to any project and is core value in our approach to design.

10.00 - 10.30

Networking and Exhibition

Improving Structural Behavior of Concrete Buildings and Bridges Using CFRP



Thammachat Kulprapha

Managing Director, NONTRI co., Ltd., Thailand

Thammachat is the Managing Director of NONTRI Co.,Ltd. , the company specialized in structural inspection and evaluation of bridges and buildings, including concrete repair and strengthening with FRP composites and Executive Director of IELT Co., Ltd. He has been experienced in structural strengthening of more than 200 concrete buildings and bridges using carbon fiber composites.



Carbon Reinforced Concrete - Opportunities in Construction and Architecture

Dr. Florian Doetzer

Managing Manager, Composite Cluster, Singapore

Dr. Florian Dötzer currently holds the position of Managing Director of Composite Cluster Singapore Pte. Ltd. and is actively promoting high-technology innovations in Singapore through Mentorships and Guest Lectures. Before taking over the current position, he was active as industry liaison for Technische Universität München's Singapore office and was involved in early setup of the NRF-funded TUM CREATE – Centre for Electromobility Singapore in the position of Deputy Corporate Director.



Epoxy Resin Systems for Composites in Construction

Sirirat Changmongkol

Sr.Manager & Team Leader –Product Development, Aditya Birla, India

Sirirat is working as Senior Manager at Aditya Birla Chemicals (Thailand) Limited, Epoxy division (ABCT). She is a Team leader of new product development in Composites and Electrical Application.

She leads her team in development of new value added products & applications and in providing customer technical services. Her professional experience of over 15 years is versatile and includes developing new molecules for use as building blocks and further in development of new epoxy systems for composites, electrical, coating and civil epoxy applications.

12.00 - 13.30

Lunch Break

Demonstration - Carbon Concrete

Demonstration - FST (Fire, Smoke, Toxicity)

14.30 - 15.00

Networking Break



Conference Program Day 2

📍 2nd floor, Building 4, Faculty of Engineering
Chulalongkorn University, Bangkok

Innovative High-Speed, Low-Cost Continuous Molding Technology for Application to Civil Engineering and Construction by Custom Fit Process of Polymerization and Molding



Prof. Kiyoshi Uzawa

Owner and Founder, Innovative Composite Center, Japan

Affiliation/Title: Innovative Composite Materials Research and Development Center, Kanazawa Institute of Technology/ Director

Professional experience

- * PhD 2007, the University of Tokyo Graduate School of Engineering
- * 2007-2009 Lecturer, Department of Environmental and Ocean Engineering, the University of Tokyo Graduate School of Engineering
- * 2009-2012 Project Associate Professor, Department of Systems Innovation, the University of Tokyo Graduate School of Engineering
- * 2012- Professor, Graduate School of Engineering, Kanazawa Institute of Technology
- * 2013- Director, Innovative Composite Materials Research and Development Center, Kanazawa Institute of Technology

Composite Material in Architecture



Fred Romier

Technical Sale, Saertex, Germany

Fred Romier has been working in the composite industry for the past 26 years. After 12 years based in France working as export manager for a Glass weaver where he set up the distribution network outside Europe, he decided to move to USA for 6 years to work for a core material manufacturer, where he also set up the distribution network outside north america.

Next challenge was to start a new fibreglass company in the middle east where he stayed 3 years.

In 2013, Fred joined Saertex and responsible of the sales and development of Saertex products in Construction and Railway industry for Asia and Middle East.

16.00

Closing Remarks

Participating Companies

List of July 12, 2018

A.I.M. Project

Aderis Technologies

Aditya Birla Chemicals (Thailand)

Affan Innovative Structures

Allnex

Alpha Composition

Altus Group

Aramco Asia Korea

Architect 49

ArchitectKidd

Asia Kangnam

B.P. Products & Supply

Behn Meyer Chemical

Big Pix Technologies

Bolwell Holdings (Thailand)

Capital House Australasia

Chomarat Group

Cobra Composite Structures

Cobra International

Concrete Composite

Composite Cluster Singapore

Composite Reinforcement Solutions

Composites System International

Cosas Naturales Resource
Development Corporation

CPN

Diab Australia

DIC Corporation

Department of Science Service

DK Composites

Duangrit Bunnag Architect

Element 6 Evolution

Epsilon Composite

Eternal Materials

Exel composites

Expressway Authority of Thailand

Foster and Partners

FRP Services & Company

G-Cast UHPC

G12 Innovation

Geo-Informatics & Space Technology
Development - Agency (GISTDA)

GRE Composites

Gulf GRC

GUNNAR AG

Gurit (Asia Pacific)

Hankuk Carbon

HAZEL & AZURE

IAW Company Limited

Innovative Composite Center,
Kanazawa Institute of Technology

Intralink Techno

J.R.M. Product

JEC Group

JN Transos

King Mongkut's University of
Technology North Bangkok

King Mongkut's University of
Technology Thonburi

Kinzi Co.,Ltd.

Korea Chemical
Fibers Association

Major Development Estate

MBM Metalworks

Mitsubishi Chemical Corporation

Montefibre Carbon Fiber

Montefibre Hispania

Monza-Factory

MQDC

Mutual Industry

Navalian Composite

Neotech Composite

Nippon Steel &
Sumikin Materials

Nontri

Office for Interior & Architecture

PJ Composite

Pongpana

Premier Composite
Technologies

PTT Global Chemical

Quintring Architects

Wah Tech Industrial

Well Development

Saertex

Sathu Auto Seat

SC Asset

SCG Chemicals

SCG Performance Chemicals

Scott Bader Middle East

SF Development

Sripipat Engineering

Sirikrai Industrial

Sojitz (Thailand)

Sojitz Pla-net

StrucTEAM

Studio Qube

Thana Inter

Universiti Teknikal
Malaysia Malaka

Wahtech Industrial

Zund Asia (Bangkok)



Founded in February 26, 1993 as a club of entrepreneurs in FRP, industry, under the facilitation and collaboration of Department of industrial Promotion and Division of Industrial Service. After awhile, the club acquired more members until March 20, 1995 when the club proposed the letter to “Office of National Culture Commission” and registered as the Association under the name “Thai Fiberglass Reinforced Plastic Industry Association, which later on changed to “Thai Composites Association” with the goal to develop and create competitive advantages of Thai composite industry in global arena.

Thai Composites Association was established to be the center of companies, specialist and individuals who are interested in composites material. The core objective of TCA is to enhance competitiveness of Thai Composites Industry to response local demand and compete internationally. In order to achieve this, TCA has set key strategic issues are followings:

- To build, in collaboration with Nation Metal and Materials Technology Center (Mtec), a composites research network by bridging industry and academic institution

- Be the center of composites knowledge and building a link with other composites association worldwide

- Provide training, seminar and disseminate knowledge to students, technicians, members and new entrepreneurs in order to be competitive both with internal and global market

- Center for publishing composites literature in Thai version



JEC Group is a global information and connection company in the composite sector, with a network of 250,000 professionals. Using its information services and its local and international networks, the Group represents, promotes and develops the markets for composite materials. Under the effect of steady growth over the past twenty years, JEC Group has forged an international reputation, opening offices in North America and Asia. The company is wholly owned by the Center for Promotion of Composites, a non-profit organization. The Group's policy is to systematically reinvest its profits into the creation of new services of benefit to the composite sector. After winning over the composite industry, JEC Group would now like to extend its scope of action to new segments of the value chain, in particular manufacturers and end users. JEC Group's experts bring specialized knowledge and an extensive network into play to propose a full range of products and services: JEC publications (strategic studies, technical works, and JEC Composites Magazine), the “World Market News” weekly international e-letter, and the French-language “JEC Info Composites” e-letter. JEC Group also organizes trade shows that include JEC World in Paris (the largest international trade show dedicated to composite materials – four times larger than any other similar specialized event), JEC Asia in South Korea, and The Future of Composites in Transportation in Chicago. Additional services include the website www.jeccomposites.com, B2B Meetings, the JEC Composites Conferences, Forums and Workshops organized in Europe, Asia and North America, and the JEC Innovation Awards program (Europe, Asia, North America, India and China).
