



# NEWS ALERT!

VBCI Series - A class of environmentally friendly corrosion inhibitors for a cleaner, greener, better tomorrow.

6th Jun 2019

## Leveraging technology: Magna Think Tank Group to drive next-level research and expertise for sustainable growth



*(From left to right) Professor Benjamin Valdez Salas (Chief Technical/Research Officer), Dr Robert Ibarra Wiley and Group CEO Dr Nelson Cheng*



VBCI Series - A class of environmentally friendly corrosion inhibitors for a cleaner, greener, better tomorrow.

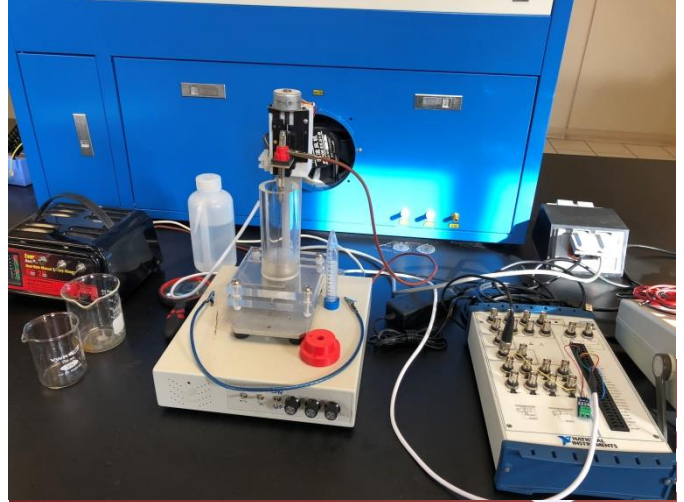
6<sup>th</sup> Jun 2019

6 December 2018 – Magna International is pleased to announce the formation of Magna Think Tank Group, which consists of various fields of expertise including corrosion control, lubrication and combating major cross-border pandemics.

With two well-equipped laboratories for corrosion control and lubrication technology at the Autonomous University of Baja California, Magna International will leverage on technology and automation, as well as industry and academic partnerships to drive revolutionary breakthrough technologies.

**The formation of the Magna Think Tank Group is an important milestone in the continuing growth and success of the health of our organization and will be instrumental in providing comprehensive technical support to our global distributors.**

**The formation of Magna Think Tank Group shows our commitment to providing the highest levels of quality care to our global distributors, and the same high level of conduct in our business practice.**



## Members of Magna Think Tank Group and Fields of Expertise



**Professor Benjamin Valdez Salas**

We are also proud to announce the appointment **Professor Benjamin Valdez Salas as our Chief Technical/Research Officer and Regional Director for Latin America.**

Our belief is to make a difference in people's lives by contributing to the development of science and knowledge transfer, especially in the areas of corrosion control via the development of VBCIs (Vapro Bio Based Corrosion Inhibitors), HAT (Heat Activated Technology Lubricants), Vapro MRST (Molecular Reaction Surface Technology) and CIT (Colloid Inhibition Technology).

Magna International is committed to developing new products for industrial problems with the environment in mind, and to consistently uphold the principles of quality improvement of our products for a cleaner, greener and better tomorrow.

### **Professor Benjamin Valdez Salas Chief Technical/Research Officer**

Benjamin Valdez Salas was the director of the Institute of Engineering (2006-2013), Universidad Autonoma de Baja California, Blvd. Benito Juarez y calle de la Normals/n, Colonia Insurgentes Este, 21280 Mexicali, Baja California, Mexico. He has a B.Sc. in chemical engineering, a M.Sc. and Ph.D. in chemistry, and is a member of the Mexican Academy of Science and the National System of Researchers in Mexico.

He was the guest editor of Corrosion Reviews, in which he produced two special issues on corrosion control in geothermal plants and the electronics industry. He is a full professor at the University of Baja California. His activities include corrosion research, consultancy, and control in industrial plants and environments.

He has published more than 350 publications with almost 1000 citations. He received a NACE Distinguished Service Award. He has been a member of NACE for 26 years. He is the current Chief Technical/ Research Officer of Magna Group of Companies.

## Members of Magna Think Tank Group and Fields of Expertise



***Emeritus Professor Michael Schorr Weiner***

Michael Schorr was a professor (Dr. honoris causa) at the Institute of Engineering, Universidad Autonoma de Baja California.

He has a BSc in chemistry and an MSc in materials engineering from the Technion-Israel Institute of Technology. From 1986 to 2004, he was an editor of Corrosion Reviews. He is acquainted with the appreciation of VCI in industrial environments.

In addition, M. Schorr was a corrosion consultant and emeritus professor in Israel, USA, Latin America, and Europe. He has published 410 scientific and technical articles on materials and corrosion.



***Professor Nicola Nedev***

Professor Nicola Nedev received the Ph.D. degree in physics from the Institute of Solid-State Physics, Bulgarian Academy of Sciences, in 1990. He is a Professor of Semiconductor Physics and head of the laboratory Semiconductors, Microelectronics and Nanotechnology with the Institute of Engineering, Autonomous University of Baja California, Mexico. His research interests include nanostructured materials, semiconductors and semiconductor device technologies.

He authored and coauthored more than 90 refereed papers and collaborates with the semiconductor and automobile industry in Mexico. Professor Nedev is member of the Mexican Academy of Sciences and Mexican National System of Researchers.

## Members of Magna Think Tank Group and Fields of Expertise



### **Professor Roumen Zlatev**

Full-time Researcher in the Engineering Institute of the Autonomous University of Baja California, UABC, Mexicali, Mexico. Master's Degree in Electrochemistry from the Institute of Chemical Technology, Sofia, Bulgaria and PhD Degree from the National Polytechnic Institute of Grenoble, (INPG), Laboratory of Electrochemistry and Physical chemistry of Materials and Interfaces (LEPMI), Grenoble, France.

He received the NACE International Award for outstanding contributions in the field of electrochemistry, corrosion and materials science and for the education of future professionals. Member of the Mexican Academy of Science and level II in the National Researcher Systems in Mexico. He has published more than 100 papers in recognized journal and hold several patents in the electrochemistry and corrosion fields.



### **Professor Ernesto Beltrán-Partida**

Professor Beltran-Partida obtained his bachelor's degree in Biological and Pharmaceutical Chemistry and his PhD in Biomaterials Sciences both with Honors from the Autonomous University of Baja California. During his PhD, Dr. Beltrán was a visitor student at the National Institute of Rehabilitation in Mexico City, the School of Stomatology and Medicine of the Autonomous University of San Luis Potosi and at the School of Medicine of the University of California San Diego, USA. He is professor of biomaterials science, tissue engineering, microbiology and molecular biology at the institute of engineering of Autonomous University of Baja California Mexico. He has authored different peer-reviewed articles and a book chapter.

Moreover, Dr. Beltrán has directed several research grants from different government institutions. He has also served as a reviewer of different high impact journals such as the Materials Science and Engineering C, Nanomedicine: Nanotechnology, Biology and Medicine, and Biotechnology and Biotechnological Equipment. His research interests are focused in Biomaterials, Tissue Engineering, Cellular and Molecular Biology and Corrosion of Materials

## Members of Magna Think Tank Group and Fields of Expertise



**Professor Jose M. Bastidas**

**JOSE M. BASTIDAS** obtained his PhD in chemistry (1981) from the Complutense University of Madrid (UCM) and is a full professor at the National Centre for Metallurgical Research (CENIM) belonging to the Spanish Research Council (CSIC). He lectured in physics (1977–82) at the Polytechnic University of Madrid (UPM).

He was a Postdoctoral Ramsay Fellow (1984–85) at the Corrosion and Protection Centre, University of Manchester, UK. He has been actively involved as leader in the development of 55 research projects in corrosion.

He has authored or co-authored 235 original peer-reviewed journal articles, including book chapters. He is author or co-author of 135 communications presented in congresses, has supervised 27 PhD Theses and MSc Degrees, and holds two patents.

He was a winner of the Joint Global Call for Research 2005, project financed by the International Copper Association (ICA) USA. He has received (2011) a “Meritorious Award to the International Trajectory” from NACE International (National Association of Corrosion Engineers) USA and from NACE Section Mexico.

He is a member of the editorial board of the five international journals: Journal of Applied Electrochemistry, Corrosion Engineering Science and Technology, International Journal of Corrosion, The Open Corrosion Journal, and Advances in Chemical Engineering and Science. He is an Associated Editor of the journal Frontiers in Materials, section Corrosion Research.

## Members of Magna Think Tank Group and Fields of Expertise



**Professor Rogelio Arturo  
Ramos Irigoyen**

Mechanical Electrical Engineer with a specialty in Electronics from the Engineering Faculty of the Autonomous University of Baja California where he obtained the degree with Honorable Mention, he is a Doctor of Engineering with Honorable Mention, Member of the National System of Researchers SNI I and member of the evaluation committees of research and technological development projects for CONACYT.

He has 25 years of experience as an Academician. Postgraduate Coordinator and Research at the UABC Institute of Engineering and General Coordinator of the Master's and Doctorate Program in Sciences and Engineering of the UABC from 2013 to 2016 and academic coordinator for the PNPC of CONACYT Mexico. His current Research Line is the field of Corrosion and Advanced Materials, Virtual Instrumentation in the fields of Computational Vision, Instrumentation and Control. Some of its most recent innovative technological developments are Virtual Instrumentation for Computational Vision applied in localized corrosion, unique in its type and colorimetry applications in corrosion studies. Participant in National and International Congresses, indexed journals with articles in Electrochemistry, Vision, Speech Recognition and Instrumentation and Electronic Control and Book Chapters.

He is a full-time professor in the Master's and Doctorate program in Sciences and Engineering in the Chemistry Area where he currently directs Master's and PhD theses.

He has trained high level human resources with Doctor and Master Degrees. Professor at the Campus Mexicali Engineering Faculty in the professions of Electronics, Eng. In Computing and Eng. Mechatronics and Biomedicine. It has a Patent and Intellectual Property Registries at the Mexico Copyright Institute. He has participated in several research projects.

He is currently a researcher at the UABC Institute of Engineering, member of the Academy of Engineering Sciences of the University, has a desirable profile PRODEP profile PREDEPA of the University and current member of the SNI of CONACYT Mexico.

## Members of Magna Think Tank Group and Fields of Expertise



**Dr. Roberto Ibarra Wiley**

Roberto I. Wiley, 43, has been Industrial Manager since 2006. He was granted the B.S. degree in Electronic Engineering (ITLM), the M.Sc. degree in Industrial Management (CETYS University) and the PhD. in Technological Transference by the Autonomous University of Baja California. He served as Human Resources Development Manager from 2005 to 2010, Also in 2010 he created the Government Affair area and currently he is head of the Innovation Center (CISEM) for Skyworks Solutions of Mexico since 2014; obtaining the 5 National Awards in Mexico (Quality, Innovation, Technology, Export and Labor), he created the Competitiveness Model for Skyworks Mexico and different funds were obtained for new investments on technology and innovation.

He is author of scientific articles on innovation ecosystems, technology and economic development through innovation models; currently he is developing 2 small technological companies for aerospace and medical sectors.

He was President of Mexicali Design Cluster in Baja California, Mexico from 2011 to 2013 integrating aerospace, automotive and electronic sectors. Dr. Roberto has served since 2013 as evaluator and consultative advice member for federal government institutions related to Innovation, design and technology, also he serves as Technical and Administration Committee member of the National Council of Science and Technology in Mexico (CONACYT – FIT program) since 2014.



**Patrick Moe,  
BSc, Grad. Dip, M.Sc**

Patrick Moe is the senior technical manager of Magna International Pte. Ltd. He has a BSc in Industrial Chemistry, Grad. Dip and MSc in Environmental Engineering.

His key responsibilities at Magna International as follows: assisting the CEO in research and development of new products, finding out customers' needs and develop customized new products, helping in synthesizing new compounds by making appropriate modifications of known methods, recommending and implementing methods to increase the quality of products and service, management of hazardous raw materials.

He has co-authored more than 35 Technical Journal on Corrosion and Lubricants. He is a member of National Association Corrosion Engineers (NACE) and World Corrosion Association (WCA).



## Members of Magna Think Tank Group and Fields of Expertise



**Dr. Nelson Cheng PhD**  
**(honoris causa)**

Nelson Cheng is the founder and Chairman of Magna Group, consisting of Magna International, Magna F.E. Chemical Pte Ltd, Magna Chemical Canada Ltd, Magna, Australia Pvt Ltd and Lupromax International Pte Ltd.

A marine engineer by training under the United Nations Development Program Scholarship, he received his Honorary Doctorate of Engineering from University of Baja California (UABC) in 2015.

He is recognized as Singapore's leading inventor with the highest number of patents registered in the Intellectual Property Office of Singapore, with patents including VCI Mineral Stone Paper. He has invented more than 500 chemical, lubricant and anti-corrosion products with 230 products assigned with NATO Stock Numbers and marketed in more than 30 countries.

He is the inventor of several technologies for corrosion protection including Vapro VCI (Vapour Corrosion Inhibitors), Vapro CRI (Concrete Rebar Inhibitor), Molecular Reaction Surface Technology (MRST) Colloidal Corrosion Inhibitors (CCIs) and Heat Activated Technology (HAT).

To date, he has authored more than 100 Research Papers and Technical Journals published in National Association of Corrosion Engineers (NACE), International Journal of Emerging Technology and Advanced Engineering (IJETA), International Journal of Current Trends in Engineering & Technology (IJCTET), Cambridge University Press, Academia.edu, ResearchGate, Intech Open and co-authored several anti-corrosion books.

He is a member of the Society of Tribologists and Lubrication Engineers (STLE), American Chemical Society (ACS) World Corrosion Organization (WCO) and European Federation of Corrosion (EFC).



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