

## MIRDC Joins the 'Kalye Share-yeah' Trend

For those who find the rapidly increasing number of private vehicles in the metro a leading cause for concern in public safety, traffic congestion and environmental issues, the news that its meteoric rise can be addressed by a road sharing activity, might be a pleasant surprise.

In a road sharing activity held on February 7, 2016 and initiated by the Bayanihan sa Daan Movement in cooperation with the Metro Manila Development Authority (MMDA), an interesting scenario of sharing portion of the road to pedestrians, cyclists and environment-friendly mass transports like the Department of Science and Technology's (DOST) Hybrid Road Train was introduced to the public.

The road sharing activity dubbed as "Kalye Share Yeah: A Road Sharing Event" aims to promote a safer road for the public, achieve a better public transportation, lessen private vehicles that congest the main roads and ensure a safer environment by reducing air pollution. The activity started at 6:30 in the morning with a program followed by the main event where the participants composed of cyclists and pedestrians took over the southbound stretch of Roxas Blvd. to signify their support on the said advocacy.

Participant of the said event also hopped in the Hybrid Road Train, which made rounds during the event along with the double-decker bus and a PWD-friendly bus. The organizers of the said event opted to include the Hybrid Road



Secretary Mario G. Montejo (third from left) gives his 'thumbs up' sign to signal his support for the road sharing activity.

Train in the said activity as part of their advocacy to address environmental issues caused by air pollution. Designed by Filipino engineers from the Metals Industry Research and Development Center (MIRDC), the Hybrid Road Train has features that are suitable to the goal of the Share the Road Movement to introduce a better mode of transportation to public commuters. Moreover, the Hybrid Road Train has a regenerative break system and runs on electric batteries or diesel. The fact that it emits much less pollution than conventional vehicles makes the Hybrid Road Train a better option for mass transport.

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## Cheers to the New Executive Director

The MIRDC finally has a new Executive Director. Engr. Robert O. Dizon, formerly the Center's Officer-in-Charge, is OIC no more. He took on the challenge of being the MIRDC's Executive Director when the position was opened to interested applicants on November 11, 2015. On January 8, 2016, after three years as OIC, Engr. Dizon was chosen to occupy the top seat in the MIRDC Management.

In retrospect, Engr. Dizon was appointed by the DOST Secretary Mario G. Montejo as OIC of the MIRDC in January 2013. His being OIC was concurrent to his being DOST

Assistant Secretary. He is Engr. and ASec. Dizon to most other people. Since his stint as OIC began, he has grown close to our hearts and is now dearly called 'Boss Bob.'

The MIRDC is right in the core of all the flagship projects of the DOST.

As metals, engineering, and allied industries form the backbone of the country's economy, the MIRDC finds itself one of the busiest agencies of the DOST for it has to continually serve immense customer segments with

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## From the Executive Director .....

As we welcome another year, the Metals Industry Research and Development Center continues to take on the challenge of giving meaningful contribution to the country. We are an organization made up of men and women who embrace a culture of being on the go all the time, and our line-up of activities for the first four months of 2016 attest to how we live up to this culture.

During these first four months, the Center involved itself in a number of major activities. We featured the Hybrid Road Train in the Bayanihan sa Daan activity spearheaded by the Metro Manila Development Authority (MMDA). We envision a more efficient mass transportation through the adoption of the Hybrid Road Train technology. We held the Closing Ceremonies of Batch 2 of our Die and Mold Designing and Making (D2M2) Training Program. With our trainee-graduates, we are creating a pool of fresh talents for the industry. We were part of the National Convention of the Metalworking Industries Association of the Philippines (MIAP). The MIRDC expresses support to its partner industry associations and their many company-members nationwide, and commits its resources for the attainment of the various associations' activities. Moreover, the MIRDC is proud to be in the final testing stages of the Hybrid Electric Train, which we will be launching to the public very soon. This is also part of the Center's Advanced Transportation Program that aims to make available S&T-driven solutions to mitigate problems brought about by the worsening traffic situations in the country. The Center also took active part in activities related to the roll-out of DOST-developed food processing equipment to the regions: we were there during the Food Innovation Center National Forum in Tuguegarao City in February, and during the deployment of the various food processing equipment to DOST-2 in February, and to DOST-Cebu, DOST-Guimaras, and DOST-Mindoro in April. These activities are outputs of our partnerships with industry associations in the M&E under the Makinarya at Teknolohiya para sa Bayan (MakiBayan) initiative.

We do not only tend to our alliance with our external clients and industry partners. We make it a point to foster and sustain a harmonious internal relationship. In the month of March, we had a general assembly for the Deployment of 2016 Plans and Programs where we were able to cascade to all MIRDC personnel information regarding the Center's goals and our strategies to achieve them. The MIRDC also participated in the DOST-wide celebration of the 2016 Women's Month, which is our way of giving respect and acknowledging the important role of women in the workforce and in the society as a whole.

Being able to reach what we have targeted to achieve is actually a matter of strategy, and part of the successful implementation of these strategies is open communication among us at the MIRDC, and with our partners and stakeholders. We confidently engage in all activities that we do because our initiatives are focused on things that are truly significant in creating an impact to the industry we are mandated to serve.

Time flies and needs are evolving. Given a very dynamic metals, engineering and allied industries to serve, the MIRDC will constantly strive to be in its competitive best by harnessing the Center's R&D outputs and intensifying its S&T services.



**Robert O. Dizon**  
Executive Director, MIRDC

## *metals industry* **TRENDS & EVENTS**

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Secretary Mario G. Montejo of the DOST showed his underpinning advocacy to provide solution to worsening traffic by encouraging the public to support the road sharing event. In an interview, he explained how the Hybrid Road Train can be beneficial to commuters and established the logic behind effectively optimizing the use of the road space.

The Hybrid Road Train made rounds along the southbound stretch of Roxas Blvd. to demonstrate an environment-friendly way of transport for commuters.

*Cheers to the new...from cover*

varied requirements. That is how it was before Boss Bob joined the MIRDC. When he went on board, things became even more fast-paced and the MIRDC was consistently among the top performing DOST Research and Development Institutes (RDIs).

Young, spirited, and purpose-driven, Engr. Dizon was fully immersed in MIRDC activities. The Center was already under his leadership when it featured the Automated Guideway Transit (AGT) System at the UP Diliman on a demo run, an event graced by the presence of His Excellency President Benigno Aquino III. The Makinarya at Teknolohiya para sa Bayan (MakiBayan) initiative, on its second year of implementation in 2013, saw expansion as more projects were lined up after Sec. Montejo signed a Memorandum of Understanding (MOU) with major industry associations. The MakiBayan consistently expanded to include more associations in the succeeding years. Through all these expansions and the successful implementation of MakiBayan-related programs – Advanced Transportation Systems Program, High Impact Technology Solutions (HITS) Program, and the Machine Building Program, to name a few – Engr. Dizon was there to give his full support.

Engr. Dizon successfully went through the task of putting up and launching the Finite Element Analysis (FEA) Design Center, the Die and Mold Solution Center (DMSC), the Surface Engineering Facilities, and most recently, the Auto-parts Testing Facility (ATF). He strongly supported



Dir. Robert O. Dizon's oath-taking with DOST Secretary Mario G. Montejo

the MIRDC-initiated implementation of the training programs on Computer Numerical Control (CNC) Machine Tool Programming and Operations, and the Die and Mold Designing and Making (D2M2). The former was already completed and produced more graduates than initially targeted. The latter is currently producing graduates who are joining the M&E workforce.

The MIRDC's initiatives aimed to foster collaborative relationships also received Engr. Dizon's full support. Linkages were formed with both local and international organizations, all with the aim of improving the level of competitiveness of the local M&E industries. Further, as OIC of the Center, Engr. Dizon gave hands-on treatment to the MIRDC's publications, which are avenues for information dissemination and technology promotion.

In all its years of existence, the MIRDC never faltered in providing

service to the industry mainly because of the dedicated personnel of the Center. But, it goes without saying, strong leadership is key to any success. The coming of 2016 signaled the beginning of more good things for the industry and the MIRDC. Along with the coming of 2016 is another fresh start, a new chance to begin things the right way.

The MIRDC is proud to finally have a new Executive Director. At last, the highest leadership position at the MIRDC in no longer just an empty seat. Congratulations, Boss Bob!



### MIRDC Deploys CNC Router in Laguna



MIRDC staff conducts training to Whittlers for the operation and maintenance of CNC router.

The Metals Industry Research and Development Center, an agency of the Department of Science and Technology, is assisting the Whittlers Arts and Crafts of Pakil, Laguna through the deployment of a new technology - the CNC Router. The Whittlers designated some of its employees to undergo operations and maintenance training of the machine that will be used to produce its various products. Whittlers' Art uses knives of various thicknesses and lengths to shave soft wood, transforming the shavings into filigreed fans, peacocks, butterflies, birds, flowers, and other designs of various shapes and sizes. The CNC Router or Super Lilok,

developed by the MIRDC in partnership with Primark Toolings, Inc., aims to help the furniture industry meet the requirements for consistent quality and attain global competitiveness. It is operated by G-codes. The controller reads the G-codes and translates the numbers to mechanical movement so that it can cut and engrave on woods, metals and acrylics. This machine can mass produce more intricate and sophisticated designs. With the enhancement of this capability, the MIRDC intends to help the local wood-working and metal-cutting industries stay competitive.



Manually-made products of Whittlers.

Through this technology intervention from the MIRDC, Whittlers is expected to increase its productivity and consistently enhance product quality. Engr. Jason P. Rogelio, MIRDC project leader, led the training of Whittlers personnel for the operation of the CNC Router. The training program was held on March 1-3, 2016 covering maintenance and operation. Engr. Adonis T. Marquez from the Technology Diffusion Division coordinated the activity.

Whittler's Arts and Crafts of Pakil is located at 175 Tavera Street, Pakil, Laguna.

### D2M2 Batch 2 Completes Training Program

The Batch 2 trainees of the project, "Enhancing Tool and Die Industry Competitiveness by Expanding the Pool of Trained and Highly Skilled Die and Mold Designers and Makers (D2M2)," graduated last 23 February 2016, at the Platinum Auditorium, Die & Mold Solution Center (DMSC). Twenty participants completed the curriculum.

Engr. Robert O. Dizon, Metals Industry Research and Development Center (MIRDC) Executive Director,

warmly welcomed the participants and guests, while Engr. Jonathan Q. Puerto, Deputy Executive Director for Research and Development, delivered the opening remarks. Also part of the program were Ms. Ma. Corazon H. Dichosa, Supervising Director of the Department of Trade and Industry-Board of Investments (DTI-BOI) and Mr. Philip C. Ang, President of the Philippine Die and Mold Association (PDMA), who gave their messages to inspire and challenge the graduates.

The trainee-graduates are composed of two teams: the Die Team, and the Mold Team. Both teams showcased their acquired knowledge through projects presentations. Mr. Virgilio F. Lanzuela, Trustee of the PDMA Board, challenged the new graduates of the six-month training program.

The project is being implemented by the MIRDC under the DOST's Makinarya at Teknolohiya para sa Bayan (MAKIBAYAN) initiative.



## MIRDC Update .....

The project aims to achieve the following objectives: review and evaluate the pilot course utilized by the 1<sup>st</sup> batch who underwent Tool and Die Training; produce an expanded pool of



trained tool, die and mold personnel to address the existing deficiency in the number of skilled manpower in the tool and die industry; and conduct mid-term and final-term assessment activities to evaluate the effectiveness of the project implementation including that of the training graduates and resource person. The Curriculum includes the following: Technical Drawing, 32 hrs.; CAD Fundamentals, 60 hrs.; Dimensional Metrology, 32 hrs.; Heat Treatment, 8 hrs.; Material Selection, 8 hrs.; CNC Machine Programming & Operations, Turning,

Milling, EDM Wirecutting, Sinking, other processes, 164 hrs.; Safety and Maintenance, 8 hrs.; Die Design and Plastic Injection Mold Design, 152 hrs.; Actual Die and Mold Making, Assembly, Trial Shots & Development, 592 hrs.

The D2M2 expects to complete four batches of trainee-graduates (Batches 2, 3, 4, and 5) in October 2016. The pilot course (1<sup>st</sup> batch) was completed last March 6, 2015 through the DMSC project. The training for 3<sup>rd</sup> and 4<sup>th</sup> batches are on-going while the 5<sup>th</sup> batch has just started their training.



## MIRDC Conducts Deployment of 2016 Plans and Programs

The annual deployment of plans and programs of the Metals Industry Research and Development Center (MIRDC) was held on March 4, 2016 at the MIRDC Gold Auditorium. The Division Chiefs presented their functional objectives, accomplishments in 2015, and plans and programs for 2016. Under the group of Dr. Agustin M. Fudolig, Deputy Executive Director for Technical Services, are the Analysis and Testing Division (ATD), the Finance and Administrative Division (FAD), and the Technology Diffusion Division (TDD), and under the supervision of Engr. Jonathan Q. Puerto, Deputy Executive Director for Research and Development, are the Prototyping Division (PD), the Materials and Process Research Division (MPRD), and the Planning and Management Division (PMD).

Dr. Danilo N. Pilar, Chief of TDD, gave an overview of the ISO 9001:2015 in which he presented the

timeline of activities for the Center's transition from ISO 9001:2008 to ISO 9001:2015 version. The last presenter was Engr. Ma. Girlie M. Millo, representative of the MIRDC Employees Labor Association (SALEM), who discussed the accomplishments and plans of SALEM.

An open forum was conducted in both the morning and afternoon sessions wherein employees were allowed to ask questions and give comments regarding the programs and activities of the center.

The last part of the Deployment is the discussion of the plans and activities for upcoming events by Dr. Agustin M. Fudolig, Chairman of

the 50<sup>th</sup> Anniversary Committee. Dr. Fudolig discussed about the M&E International Conference, Thanksgiving Dinner, Homecoming of the Ex-MEN (former employees of MIRDC), Employees' Day, construction and landscaping of the New Main Road, and construction of the MIRDC Marker/Monument.



Director Robert O. Dizon gives his opening remarks.



## New Products and Processes .....

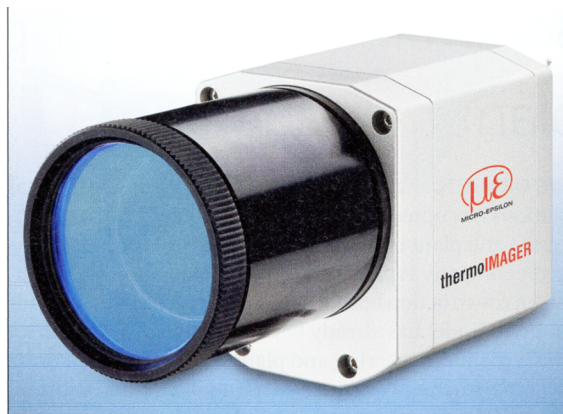
### Thermal imaging camera for hot metals

Compact, short-wave and highly dynamic are the three key attributes that describe the latest thermal imaging camera launched by Micro-Epsilon. The thermoIMAGER TIM M1 camera comes with a USB interface and the license-free TIMConnect software as standard. The camera is designed for a continuous temperature measuring range from 450°C to 1,800°C, image frequency of up to 1kHz and different resolution/image frequency modes. The entire temperature measuring range can be used without any sub ranges. Therefore, in many applications, there

is no need for any measuring range switchovers, giving the camera a great deal of flexibility. The new thermoIMAGER TIM M1 camera is specifically designed for measurements on hot metals, graphite or ceramics. This is why it is primarily used in the metals processing industry, e.g. for temperature monitoring of hardening and forming processes. The highly dynamic CMOS detector allows a maximum resolution of 764 x 480 pixels at an image frequency of 32 Hz. For high-speed processes the camera can be switched to 72 x 56 pixels at 1,000 Hz.

Contact: [www.micro-epsilon.com](http://www.micro-epsilon.com)

Source: *MPT International 1/2016, p. 52*



Thermal images camera of compact design

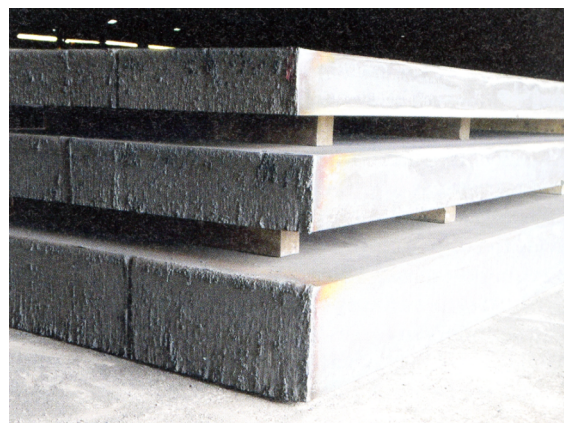
### Stainless steel slabs improve yield and cost efficiency in heavy forging

Using stainless steel slabs instead of ingots in heavy forging provides significant cost and material savings. Forging an ingot requires more heating, work, energy and time than forming slab. Due to the ingot's narrow, tapering shape, the heads and tails must be discarded, resulting in wasted material. Outokumpu produces up to 300 mm thick stainless steel

slabs. They are widely used in demanding applications such as flanges, powder plant components, shipbuilding, marine parts and petrochemical pipes and parts.

Contact: [www.outokumpu.com](http://www.outokumpu.com)

Source: *MPT International 1/2016, p.56*



Continuously cast stainless steel slabs of different thickness

### Backlash-free shaft coupling with integrated clamping system

KTR, in cooperation with Swedish company ETP Transmission, developed a backlash-free servo coupling with an integrated ETP clamping system. The coupling can be mounted with just one screw in a matter of seconds. Traded under the name Rotex® GS P, the servo coupling is fully made of steel and particularly suitable for application in high-speed drives. The clamping system consists of a double-walled, hardened steel sleeve filled with a pressurizing medium. The flange comprises a screw and a piston with a gasket for pressure generation.

As the screw is tightened radially, no axial space for assembly tools is required. The sleeve expands while generating a uniform surface-pressure against the shaft and hub. The single-screw principle makes for continuously variable positioning of the coupling. The uniform stress distribution in the basic body of the hub results in an accurate concentricity of the ETP system while ensuring very smooth running.

KTR and ETP are currently working on a two-part type which is to allow for the use of other coupling types and materials.

Contact: [www.ktr.com](http://www.ktr.com)

Source: *MPT International 1/2016, p.56*



Coupling with clamping system



## Electromagnetic stirrer

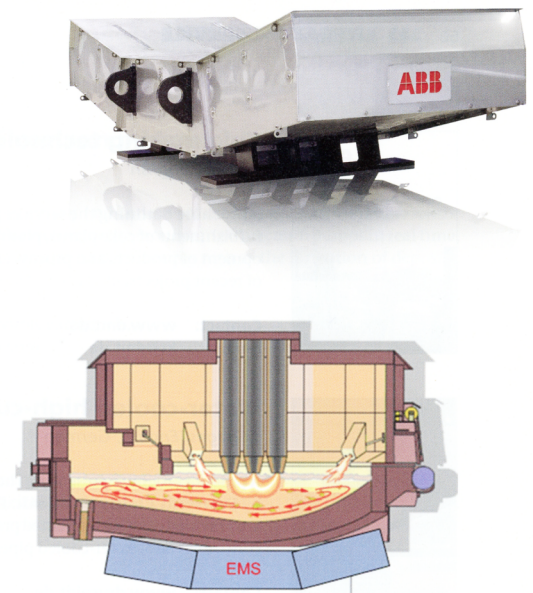
As a result of over five years of research and development, ArcSave ABB's next generation electric arc furnace electromagnetic stirrer (EAF-EMS), reduces carry-over slag and shorten tap-to-tap time while strengthening slag-melt homogenization and increasing yield. It also contributes to safer operations. The ArcSave's powerful electromagnetic stirring enhances the melting of large scrap items and makes stratification less significant due to force convection. The melt velocity achieved is roughly ten times faster as compared to just having natural convection in the bath and results in less power-on-time.

The temperature homogenization further helps manufacturers not only to obtain an extra tapping temperature for different grades of steel, but also allows smooth tapping without delay. The uniform melt gives producers a safer, more reliable EAF operation

with a reduction in the number of scrap cave-ins, fewer instances of over tap temperature and carbon boiling out, as well as less un-molten big scrap. Increased steel yields, as well as savings in scrap cost and conversion are achieved, given that manufacturers can more readily attain a low carbon and oxygen mix, with a reduction in the slag's iron oxide (FeO) content. Damage at the slag line-level is reduced due to the stirrer's ability to lessen super-heating during power on, lower tapping temperatures, decreased FeO content in the slag and diminished oxygen in steel.

Contact: [www.abb.com](http://www.abb.com)

Source: *MPT International* 1/2016, p.59



EMS unit for electric arc furnaces

## Heavy-duty sawing machines for large workpieces

The heavy-duty bandsaws the new series offered by Behringer are based on the modular design principle, allowing users from a wide range of sectors to machine cumbersome material quickly and precisely. Tolerances of just 0.1 mm per 100 mm cutting height are easily possible. The bandsaws come with precise saw feed provided by two ball screws with servo drive. The axes are electrically coupled and constant chip removal is guaranteed even at low feed rates. The gantry-type design of the Behringer bandsaws guarantees optimum stability during sawing, ensures quiet, smoothly running saw blades, prevents torsion and minimizes vibration-damping grey cast iron. The open design improves access to bandsaw changes or maintenance work.

A gantry machine, whose entire saw frame is moved on linear guides over the workpiece, requires the least space. It is predominantly suited for users who need to divide freeform forgings or large solid forged parts. The fixed support table is able to cope with extreme loads of over 100 t. The

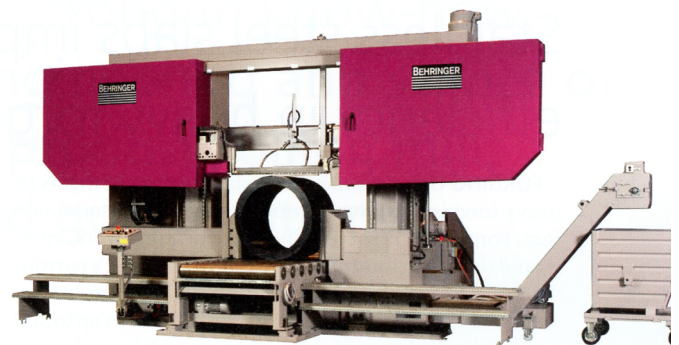
variants with table support are the ideal all-rounders in forges, rolling mills and gravity die casting foundries, and also for steel finishing applications as well as tool and mold making. Large bandsaws with roller conveyors are highly suitable for dividing large pipes or round and rectangular material. To enhance safety for the operating staff and ensure better alignment prior to cutting, the table version with T-slots has proven highly successful in practical application for many years. For large diameter round material, prism supports are used.

Behringer's LPS ring saw for large pipes opens up enormous savings potential for customers wishing to divide rings from pipe sections. The sawn rings are automatically deposited on a mandrel, so allowing unmanned operation over a period of several hours. This collecting fixture is designed to be fed forward to engage the cut rings in such a way that the

offcuts cannot collide with the bandsaw blade. After re-tooling which takes only 15 minutes, the next pipe can be fed into the machine and the LPS can continue to operate automatically for several hours.

Contact: [www.behringer.net](http://www.behringer.net)

Source: *MPT International* 1/2016, p.52-53



Gantry bandsaw

### PH Fast Becoming Regional Hub for Electronics Manufacturing: DTI

The Philippines is fast becoming a regional hub for the manufacture of electronic products and components, according to Department of Trade and Industry secretary Adrian S. Cristobal Jr. who recently inaugurated the new electronics factory of Kinpo Electronics Philippines at Lima Technology Center in Lipa City, Batangas.

The new facility will manufacture calculators, electronic keyboards and LED lamps.

“New manufacturing facilities in the country represent a strong vote of confidence in our efforts to fast-track reforms and initiatives to attract investments, particularly to further develop our industrial sector.”

“Our government's stable macroeconomic fundamentals and commitment to transparency and good governance has led our country to become one of the fastest growing, most resilient, and increasingly competitive economies in the world. The Kinpo Group has recognized this and seen it fit to set up shop in the Philippines,” Cristobal said.

The Industry Development Program, initiated in 2012 by Cristobal during his term as DTI undersecretary, positions the Philippines as a regional hub for the assembly of various electronic products or components.

“These electronic products are then exported overseas either to other Asean economies as part of the regional value chain, or as finished goods for export to both Asean and other economies,” Cristobal explained.

Kinpo plans to build another facility at First Philippine Industrial Park (FPIP), also in Batangas. It currently employs more than 5,000 workers in the Philippines.

New Kinpo Group CEO and president Yong “Simon” Shen expects to hire 15, 000 workers, once all its future projects in the country are completed. He added that Kinpo is currently recruiting qualified Filipino engineers for its new facilities in the country.



DTI secretary Adrian S. Cristobal Jr. toured the electronics factory of Kinpo Electronics Philippines during its recent inauguration. With Secretary Cristobal is Department of Foreign Affairs secretary Jose Rene Almendras.

Developing and maintaining skilled workers who can support higher value activities is one of the goals identified in the electronics industry roadmap. The roadmap also aims to develop and strengthen local supply chains, which have already been initiated by several manufacturers in the Philippines. With a growing base of components suppliers, the industry will lessen the need to import components from other countries.

The electronics industry roadmap is one of the 40 roadmaps crafted under the IDP. Complementing the industry roadmaps are the various projects under the Manufacturing Resurgence Program (MRP) and the Investments Priorities Plan (IPP).

Through the MRP, the country seeks to resolve issues that cut across industries, such as those related to the ease of doing business, transport and logistics efficiency, and cost and supply of power.

Statistics indicate that employment in the local electronics industry has been constantly

increasing since 2009. In 2014, direct and indirect employment by the sector was registered at 2.8 million.

Export receipts from the Philippine electronics sector have scored consistent growth with total figures cornering 41.8 percent of total Philippine exports in 2014. The industry has emerged to be the second largest contributor to the Gross Value added (GVA) in the manufacturing sector, which was registered at 16.59 percent in 2014.

*Source: Newsbytes Philippines, April 1, 2016*



## MIAP Holds its 29<sup>th</sup> National Convention

The Metalworking Industries Association of the Philippines, Inc. (MIAP) held its 29<sup>th</sup> National Convention on March 17-19, 2016 at the Grand Regal Hotel, Davao City. Themed “Level Up! A MIAP Challenge,” the event was hosted by the MIAP-Davao Chapter. Parts of the convention program were city and plant tours, open fora and product presentations. Concurrent to the event was an exhibition featuring the products and services of MIAP member-companies as well as those in allied industries.

MIAP members, exhibitors and guests attended the opening of the exhibition. They were welcomed by Engr. Lorenzo A. Cristobal, National Convention Director. Ms. Inesitas L. Palermo, MIAP National President, gave a warm message, followed by DOST-XI Regional Director Anthony C. Sales and TESDA Regional Director Gaspar C. Gayona who also delivered their speeches as guest speakers. Ribbon cutting was held next led by Dr. Anthony C. Sales, assisted by Ms. Inesitas L. Palermo, MIAP national officers and trustees, and MIAP past national presidents. A welcome fellowship night was held after the plant and city tours.

On the other hand, during the opening ceremony of the convention program, Engr. Mario C. Julaton, Vice President for Mindanao, acknowledged the dignitaries,

delegates and guests from all chapters of MIAP. Mr. Dominador Y. Lanoy, President of the host chapter and Chair of the 29<sup>th</sup> MIAP National Convention, gave a welcome address. Mr. Amelito E. Umali, Chief of Sectoral Studies Division, Manufacturing Industries Department of the Board of Investments, represented Hon. Adrian S. Cristobal, DTI Secretary, as Keynote Speaker. Further, Engr. Fred P. Liza, Chief of the MIRDC-Prototyping Division, presented DOST/MIRDC projects with MIAP while Dir. Rex L. Bingabing, Director IV – Philippine Center for Postharvest Development and Mechanization (PhilMech) of the Department of Agriculture (DA), presented the projects being implemented by PhilMech. Furthermore, Engr. Robert O. Dizon, MIRDC Executive Director, discussed about DOST/MIRDC Programs. Engr. Dizon also joined the plant tour to the DECO Machine Shop aimed at locating technology transfer partners for the Gearmaking Facility project which is currently being implemented by the MIRDC.

The election of officers for the fiscal year 2016-2017, held during the MIAP business meeting, was facilitated by Dr. Danilo N. Pilar, Chief of the MIRDC - Technology Diffusion Division and designated COMELEC Chairman. The elected officers and trustees were:

<b>President</b>	<b>INESITAS L. PALERMO</b>	<b>(MIAP-Iloilo Chapter)</b>
<b>Exec. Vice President</b>	<b>DOMINADOR Y. LANOY</b>	<b>(MIAP-Davao Chapter)</b>
<b>VP - Luzon</b>	<b>RENE I. DELA CRUZ</b>	<b>(MIAP-Metro Manila Chapter)</b>
<b>VP - Visayas</b>	<b>EDSON Y. MATEO</b>	<b>(MIAP-Cebu Chapter)</b>
<b>VP - Mindanao</b>	<b>MARIO C. JULATON</b>	<b>(MIAP-Davao Chapter)</b>
<b>Secretary</b>	<b>CHERRY R. ISOBAL</b>	<b>(MIAP-Negros Occidental)</b>
<b>Treasurer</b>	<b>HECTOR D. MALONZO</b>	<b>(MIAP-Metro Manila Chapter)</b>
<b>Auditor</b>	<b>JAMES G. ARCENIO</b>	<b>(MIAP-General Santos Chapter)</b>
<b>Trustees</b>	<b>CIPRIANO M. VICENTE</b>	<b>(MIAP-Surigao Chapter)</b>
	<b>FRANCIS S. CELIS</b>	<b>(MIAP-Cagayan De Oro Chapter)</b>
	<b>RAYMUND M. PARAS</b>	<b>(MIAP-Cagayan De Oro Chapter)</b>

Mr. Virgilio F. Lanzuela, immediate past national president of MIAP, administered the oath-taking ceremony of the newly-elected board of trustees and officers of the MIAP National. Also, Mr. Philip N. Tan, past national president of MIAP, led the induction of the new members of MIAP chapters.

The newly-elected officers of the MIAP National will lead the lined-up activities of the association, among which, is the participation to the forthcoming PDMEX 2017. The chairman of the PDMEX, Mr. Louie T. Fuster, gave a sneak preview of the exhibition. Finally, a grand fellowship night concluded the annual event.





## **MIRDC Joins in the Celebration of the 2016 Women's Month**

The Metals Industry Research and Development Center (MIRDC) of the Department of Science and Technology (DOST) joined the nation in the observance of the 2016 Women's Month celebration, an event spearheaded by the Philippine National Commission on Women, mandated by RA 6949. Several activities were held to recognize the important role portrayed by women in the development and progress of a country. The event was held on March 31, 2016 at the DOST grounds in Bicutan, Taguig City, with the theme, "Kapakanan ni Juana, Isama sa Agenda."

The theme resonates the call for gender-balance in leadership and decision making position both in public and private sectors; inclusion of women's concerns in leadership platforms and the government agenda; and capacitating and preparing women and girls to reach their ambitions.

The objectives of this year's celebration are: (1) to create an avenue for women and women advocates to celebrate the gains of the current administration with regard to closing gender gap, as well as to call on the next administration to continue supporting the advocacy and prioritize women's issues in various agenda; (2) to present the achievements of the Aquino administration in promoting gender equality and women's



Presentation of women's agenda for MIRDC

empowerment, through the Report on the State of Filipino Women; (3) to gather public perception on what women's issues should be prioritized by the next administration through crowdsourcing of "Agenda ni Juana;" and (4) to strengthen public advocacy on National Women's Month, with emphasis on women's issues that still need to be addressed.

The celebration was opened with a parade of the different agencies at the DOST Compound. It was followed by the Welcome Remarks given by Dir.

Elizabeth A. Fontanilla, Director for Administrative & Legal Service and DOST-wide GAD Focal Person, while Usec. Rowena Cristina L. Guevara, Undersecretary for S & T Services, delivered a short message to inspire the participants.

The latter part of the program was the Forum on Women Leadership. Topics discussed and respective presenters are as follows: (1) Women as Game Changers: Challenges and Strategies – PSupt. Ercy Nanette Madriaga-Tomas, Chief, OAD, PNP; (2) Women and Work: What's Holding Women Back? – Dr. Maripaz L. Perez, Country Director, World Fish Center; (3) Becoming a Woman Leader – Ms. Remedios I. Rikken, Chairperson, PCW. An open forum was conducted after the presentation/discussion.

Other activities in relation to the said celebration were also conducted. These included: Parlor Games; Zumba; Photo Booth; Thumb Printing; and the Casting of Votes. All were held at the DOST Executive Lounge.

Women have been playing a vital role in the establishment of the country's economy. As such, they are encouraged to aim for leadership roles in different sectors to show that they are competent and capable of doing various things.



Commitment of women of DOST



## The MIRDC is All Set to Go Gold

Everyone at the MIRDC is happily part of the Center-wide preparations for its upcoming 50<sup>th</sup> Founding Anniversary. A tradition for many years now, the two Deputy Executive Directors of the Center alternately sit as Chair of the Metals and Engineering (M&E) Week Committee, and thereby spearhead the overall preparations for the Anniversary celebration, as this event coincides with the M&E Week which is celebrated every third week of June. This year, Dr. Agustin M. Fudolig, Deputy Executive Director for Technical Services, is Chair of the ever-busy Committee and oversees all its engagements so that sub-committees and all respective members are always on top of the hectic situation.

The M&E Week/Anniversary Committee has come up with the following activities that will be held within the week of the M&E, which is from 13-17 June 2016:

1. 13 June 2016, Monday
  - > Holy Mass
  - > Launching of the New DOST South Gate and Unveiling of the MIRDC Marker
  - > Blessing ceremonies

It is going to be a busy week loaded with activities whose implementation will demand too much attention to details. The Committee sees it very necessary to start the week on the right track. The Mass and the blessing of newly-established facilities are the best ways of making sure that the week-long celebration will be appropriately started with thanksgiving and prayers for the continued success of the MIRDC. The Holy Mass will be held at the Platinum Auditorium of the Die and Mold Solution Center (DMSC) in the MIRDC Compound.

2. 14 June 2016, Tuesday
  - > Awarding of Champions and Winners of the 1<sup>st</sup> M&E Skills Olympics



Prior to the M&E Week, the MIRDC is scheduled to conduct competitions for various trades in the metals and engineering industries. This is, of course, in cooperation with some of the Center's industry partners, namely: the Philippine Die and Mold Association, Inc. (PDMA); the Metalworking Industries Association of the Philippines (MIAP); the Philippine Welding Society (PWS); and the Mechatronics and Robotics Society of the Philippines (MRSP). The second day of the M&E Week will be allotted to the awarding ceremonies of the winners in the various competitions. This activity will be conducted at the DMSC's Platinum Auditorium.

3. 15 June 2016, Wednesday
  - > M&E International Conference
  - > Thanksgiving Night

The MIRDC is strengthening its linkages with both local and foreign institutions in its pursuit of technology and capability advancement. In line with this, the MIRDC officials and key personnel conduct study missions and benchmarking activities in foreign companies recognized as industry leaders. Experts from these foreign institutions will be invited as guest speakers for the M&E International Conference. This is going to be a learning opportunity for the local industry players, as well as a chance for the guests to establish collaborative relationships.

The Thanksgiving Night is going to be an event for the Center to give recognition to all its partners who supported and continuously contribute to the MIRDC's initiatives. The Center shares its successful 50 years of existence to all individuals, and local and foreign organizations, who held on and believed that enhancing

the Philippine M&E industries' productivity and global competitiveness is worth everyone's synergized efforts.

These events will be held in Ballrooms 1,2, and 3 of the Crimson Hotel, Alabang, Muntinlupa City.

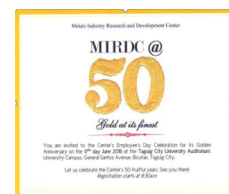
4. 16 June 2016, Thursday
  - > The MIRDC Homecoming 2016



The MIRDC makes it a point to keep an open line of communication with its past leaders and former employees. Among themselves, they are able to keep in touch and stay very much connected through regular meet-ups and social media. The MIRDC took advantage of their strong linkage and initiated the formation of the Ex-MIRDC Employees Network (Ex-MEN). Since turning 50 is an indelible milestone, the Center deemed it very fitting to invite these special guests who are most certainly part of the MIRDC's fulfilling journey.

The Homecoming is going to be a chance for the present MIRDC officials and employees to touch base with the previous pillars of the Center. It is going to be a day to celebrate friendships and to walk down memory lane with colleagues. Venue for the Homecoming 2016 is the Platinum Auditorium of the DMSC.

5. 17 June 2016, Friday
  - > MIRDC 50<sup>th</sup> Anniversary/ Employees' Day Celebration



For many years, the employees of the MIRDC have celebrated the Anniversary/Employees' Day on the last day of the M&E Week. This serves as the culmination of the week-long activities, and is the day that

# ANNOUNCEMENT

## Sneak Preview .....

### YOU ARE INVITED!

The Department of Science and Technology (DOST) will observe a bigger, nationwide simultaneous celebration of the National Science and Technology Week (NSTW) on 25-29 July 2016 in all Science Communities – Bicutan, Los Baños, Quezon City, and Manila – and the regional offices.

Bannered as  
**“Juan Science, One Nation”**  
the DOST-MIRDC warmly invites everyone to join in our weeklong event from 8:00 a.m. – 5:00 p.m. at the MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City.

The MIRDC's OPEN HOUSE will feature the following technologies with video showing and fora: Surface Engineering (Vacuum Gas Quench Heat Treatment Furnace & Anodizing Facility); Gearmaking Facility; Auto-Parts Testing Facility; Die and Mold Solution Center; and a lot more. You may also want to experience an AGT ride for free.

For details, please get in touch with Ms. Lina B. Añable, Chief - Technology Information and Promotion Section (TIPS) at the following contact numbers: tel. no. (02) 837-0431 to 38 loc. 463, telefax no. (02) 837-0479 and email: [mirdctips@mirdc.dost.gov.ph](mailto:mirdctips@mirdc.dost.gov.ph).

Maraming salamat po!

  
**ROBERT O. DIZON**  
Executive Director, MIRDC

everybody looks forward to because it is an event that is meant to give everybody a break from their usual 8 am – 5 pm routine. The entire day will be filled with fun, laughter, performances by the Center's very own bands, and awarding of the best performing employees.

This year, being the Center's Golden Anniversary, the designated Committee will treat the employees to an out-of-the-office venue for the Anniversary program. The Employees' Day will be held at the Taguig City University Auditorium, University Campus in Bicutan City.

Planning and strategizing for the 50<sup>th</sup> Anniversary celebration is proving to be an exciting experience for MIRDC personnel. It is turning out to become one of the most memorable and fulfilling corporate bonding type of activity, where camaraderie and comfortable companionship are formed and strengthened among employees.

It is an all-systems-go kind of atmosphere at the MIRDC. The closer we get to the date of our celebrations, the more we feel each other's importance, and the more we realize that the Center is fortunate to have the industry as its very dependable ally. We are truly proud to be celebrating our Golden Anniversary soon, and even more proud to share this with the Philippine metals, engineering, and allied industries.

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