Events

1. Bluestar Summer Camp’s Outstanding Social Responsibility
   Tianhua and Zhonghao Chenguang as State-level Technology Centers

2. Ren Jianxin Makes Snowy Visit to Shenyang Chemical Industry Group
   Liming Institute and Solvay Set up A Strong Union

3. Guangxi Dahua Staff Take Part in Off-season Sales Sprint
   Huaxing Petrochemical’s WCM/CI Training
   Yiyang Yishen Exporting to Thailand
   Bridgestone Japan Leaders Tour Guilin Rubber Machinery Factory

Project

4. Construction Projects Go All Out in Winter

Technology

5. Guilin Rubber Machinery Factory Gets Best Patent Award
   Ethylene Packaged-technology Passes Engineering Appraisal
   BRDIFI Develops Intelligent Sealing and Alarming Device
   Harbin Petrochemical Patents

6. Zhenghe Petrochemical’s New Acrylic Acid Sewage Treatment Technology
   Sanming Chemical Engineering Machinery’s Mechanical Tire Press
   Shenyang Axle’s Corporate Technical Center Recognized by Liaoning Province
   China Bluestar Chengrand Chemical Standardization Workshop

Social Responsibilities

7. Participatory Approach to Fire Safety

Employee World

8. Love Is Everywhere -- a Story about a Volunteer, Jia Xing, from Bluestar (Tianjin)
   I Want to Do Something for the Elderly
   Yuxing Chemical Provides Free Welfare Insurance for Children under 14
Bluestar Summer Camp's Outstanding Social Responsibility

SASAC held a Work Conference on the Social Responsibility of Central SOEs on Nov 11, 2011 where it announced that the "Bluestar Summer Camp: shaping a brand of CSR over 22 years" had been recognized as an Outstanding Social Responsibility Practice of Central SOEs 2011.

Bluestar originally started the summer camp for many of the employees' children who were school-age and. Since many of their parents had to spend a lot of time on business trips across the country to improve Bluestar's business, they were less available for their children during their summer vacation. So, the summer camp was born.

Ren Jianxin, who was general manager of Bluestar, originally advocated setting up a summer camp, then personally planned and organized the first one. That first year, 11 campers, all of whom were children of Bluestar employees, made a visit to Lanzhou and the Gannan Grassland for a week. That was the beginning of the Bluestar Summer Camp tradition.

Over the years, this annual event has gradually changed from that first small gathering to an event that now includes family members from across China and even reaches other parts of the world. This year, more than 1,100 campers from 12 countries took part, and it was organized with sub-camps in 19 cities across the country for their convenience. It has also grown from a week to 20 days, with camp activities constantly enriched. Over a three-week period, campers are able to develop and practice independent living skills, gain extra-curricular knowledge, strengthen their physical well-being, and develop good study habits and team spirit.

The summer camp has grown into a large systematic social responsibility project for Bluestar with specialized organization and security methods, greater financial support, professional guidance, and themed operations. And, as the organization grows more professional, the Bluestar Summer Camp has involved the Beijing Education Commission's institute to draw up special programs and activities and has begun working with some outstanding primary and secondary schools. Teachers from these schools are invited to act as summer camp instructors.

The camp organizers also hire students from normal colleges (teachers colleges) to act as assistant instructors and doctors as camp physicians for the summer. Over the years, the Bluestar Summer Camp has spent more than 70 million yuan to make the camping experience the best possible.

The camp is the only one of its kind in China organized by a company for its employees' children every year, and it enjoys a solid reputation and has played an important role in promoting the corporate culture, inter-generational communication, and Chinese-Western cultural integration.

Tianhua and Zhonghao Chenguang as State-level Technology Centers

The Tianhua Institute of Chemical Machinery & Automation’s has been certified as a State-level enterprise technology center. The announcement came at the NDRC’s State-level Enterprise Technology Center Awards ceremony on Nov 16.

In a related development, the Zhonghao Chenguang Research Institute Technology Center was certified as a State-level enterprise technology center at the National Innovation Capacity Building Awards ceremony held by the NDRC and four other ministries.
Ren Jianxin Makes Snowy Visit to Shenyang Chemical Industry Group

The afternoon of Nov 22, the folks at Shenyang Chemical felt an air of excitement in spite of the cold and heavy snowfall outside.

ChemChina President Ren Jianxin and his company arrived at the new offices of the Shenyang Paraffin Chemical Co, Ltd, at 4:00 in the afternoon. Ren did not appear to be fatigued at all as he got out of his car in the wind and snow even though he had just been back from an overseas business trip the day before. He listened attentively to a development report on the Shenyang Chemical Group by Wang Dazhuang, president of the Group and vice-president of Bluestar. Although the snow was still blowing around outside, everyone in the room was full of enthusiasm and Ren was very excited about the figures that Wang was presenting.

Shenyang Chemical Group has developed rapidly this year. As of October, the Group had hit 8.5 billion Yuan in sales revenue, realized profit of 220 million Yuan and paid taxes of 750 million Yuan. It is expected that sales revenue will reach 10 billion Yuan by the end of the year, with taxes finally amounting to 1 billion Yuan. The Group has constructed several follow-up projects for catalytic pyrolysis process (CPP) this year, one of which is a naphtha-cracking furnace with an annual output of 40,000 tons of ethylene and 20,000 tons of propylene. It is expected that all CPP follow-up projects will be completed by April next year to cut gasoline production and increase olefin output.

These show how rapidly Shenyang Chemical has developed since it joined ChemChina in 2004. Sales have risen from less than 2 billion yuan to 10 billion yuan and assets increased by four-fold. Taxes have gone from 60 million to 1 billion yuan, nearly 17 fold.

Ren insisted on getting a closer look at the CPP facility right after the meeting and, in the control room, asked about operations and got further information on each step of the process. In front of the large overall drawing of the CPP project planning, Wang gave him a detailed description. Back outside, Ren walked through the installation area regardless of the blowing snow blanketing his shoulders and the rest of his suit.

Then, at 5:00 pm, Ren bid farewell to the accompanying Shenyang Chemical personnel on the east side of the CPP installation for a meeting with Liaoning provincial leaders. But, he rolled down the car window and again said goodbye as his car rolled away from the factory. It was a cold, snowy night in Shenyang, but Ren’s visit encouraged the assembled group and his visit will help them in future overcome any difficulties they encounter on the path to development.

Ren Jianxin and his entourage at Shenyang Chemical in the blowing snow on Nov 22 (Photo by Song Lianqin)

Liming Institute and Solvay Set up A Strong Union

At the 40th anniversary celebration of Sino-Belgian diplomatic relations in Beijing on Oct 24, Vincent De Cuyper, President of Solvay, a leading Belgian chemical producer, and Li Zhiqiang, President of Liming Research Institute of Chemical Industry, signed a cooperation agreement. This agreement represented a move toward more extensive cooperation in hydrogen peroxide production technology between Solvay, the world’s largest hydrogen peroxide producer, and Liming, China’s leading hydrogen peroxide producer. This winning combination could change the global hydrogen peroxide production structure in the future.

Hydrogen peroxide is a green, pollution-free chemical that is becoming more widely used both in industry and in personal life. However, the technology is held by only a few enterprises around the world. Solvay has patented a Pd-catalyzed anthraquinone (AQ)-process fluidized-bed technology to produce hydrogen peroxide, and has installed such plants on every continent. Liming Institute has enabled over 70 hydrogen peroxide units in China based on its own independently developed Pd-catalyzed AQ-process fluidized-bed technology. Liming’s success has made China the world’s largest producer of hydrogen peroxide. The companies will cooperate, each using its own advantages, to develop a more extensive application of their hydrogen peroxide production technologies around the world.
Guangxi Dahua Staff Take Part in Off-season Sales Sprint

Qiu Zi

To deal with a fall-off in the titanium dioxide market that began this past August, Guangxi Dahua came up with a “Working harder for 100 days, fighting in the 4th quarter” sales contest to motivate everyone in the organization to get involved in off-season sales sprint.

The company has adjusted its marketing strategy to a more flexible model so its production department can understand the changing market conditions more promptly and produce more readily marketable products. The adjustment includes “5S” on-site warehouse management, fixed-location inventory management, warehouse space separation, and more rational use of warehouse space for more efficient logistics and less inventory pressure in the off season.

Employees in the finished-product warehouse have made themselves ready round-the-clock to ensure the timely delivery of products while sales personnel are all out in the field to look for more end users. Certain line of credit has been extended to end users to ensure market share. The company added 24 new clients in the July - Oct period and product deliveries are increasing every month.

Improving quality is an important factor in increasing sales so the company designed an Improved Titanium Dioxide Quality Award program to set higher standards for all quality indicators. Although the power supply was down in September, 95.4% of the products were of first grade. Over at Titanium Dioxide Factory No 2, the qualification rate stood at 100%. All branches held quality discussions and the staff submitted 29 suggestions to improve product quality. At the same time, the company further decreased payment to suppliers whose materials were below standard level and inspected their production sites in person. Through these rigorous efforts, the pass rate for titanium ore increased from August’s 85.78 % to 99.57% in September from August’s 85.78 % to 99.57% in September.

Huaxing Petrochemical's WCM/CI Training

Liu Yan

Shandong Huaxing Petrochemical had a four-day WCM/CI training session recently and participants said they learned a lot from the course. It laid a solid foundation for continuous improvements in the company for the next phase.

Yiyang Yishen Exporting to Thailand

Li Zhonghong

Yiyang Yishen Rubber Machinery exported four more 65.5-inch tire vulcanizers to Thailand in October. So far, it has exported more than 100 mechanical and hydraulic vulcanizers this year. (Photo: 65.5-inch vulcanizers on the assembly line)

Bridgestone Japan Leaders Tour Guilin Rubber Machinery Factory

Li Li

The president and directors of Bridgestone Japan visited the Guilin Rubber Machinery factory on Oct 29 and showed great interest in the new hydraulic vulcanizer. They also learned of the particular advantages and performance level of the equipment. (Photo: Guests visiting the workshop)
Construction Projects Go All Out in Winter

The weather may be getting colder as winter sets in, but many of the ChemChina Group's construction sites are still as busy as ever. The construction workers' enthusiasm makes the sites look the same as they did in the warmth of this past summer. CPP expansion is one of Shenyang Paraffin Chemical's projects in 2011, and is now under construction and workers are attending to every detail of the work.

Meanwhile, at Bluestar (Nanjing) New Chemical Materials, after the completion of a 55,000-ton BDO project, it has been working on a 50,000-ton MAH project and a 44,000-ton THF plant for more than a year. The first of the two plants will go into operation by the end of this year and the second, by the beginning of next year.

On November 11, ChemChina Oil & Gas Corp's Daqing branch started laying a pile foundation next to its atmospheric facility, for a 70,000-ton non-hydrogenation straight-run gasoline upgrade project. Construction will be completed before winter is over, and the new unit will go into production in July next year.

Aeolus Tyre has built an advanced testing center for finished auto tire products. The center equipped with advanced technologies plays a buffer role for finished tire products, and is used to assess the appearance, dynamic balance and uniformity of finished tires.

At the site of the Xinghuo Plant's 200,000-ton organic silicon integration project, representatives of the owner, the contractor, and the supervisor have been working overtime to see that the project is completed on schedule.

Cangzhou Dahua took the opportunity just before winter to speed up the installation of its equipment and outside work for its new 70,000-ton TDI project.
**Guilin Rubber Machinery Factory Gets Best Patent Award**

Yang Wenguang, Li Li

Recently, the 13th China Patent Awards were unveiled, granting a China Best Patent Award to several technicians at Guilin Rubber Machinery Factory, including Liu Fuwen and Li Xinxi, for their patented invention of a horizontal movement curing press.

The technology mainly relates to a 5,000-mm (200 in) tire-formation curing press that the factory developed, whose main features are:

- An external boiler with the mold locking mechanism that assumes mold clamping force and an internal boiler of the steam chamber that absorbs steam pressure—a reliable, safe frame that allows easy installation and adjustment.
- An oil cylinder that meets the mold adjustment range requirements and force application requirements without the need of an adjustment pad or mold adjuster—a simplified structure.
- Synchronous movement of right and left wall panels thanks to a motor-driven rack-and-pinion horizontal-movement mechanism and a movement sensor that ensures precise positioning of horizontal movement.
- Suitable for large tires, with an uncommonly simple structure that is easy to operate and costs relatively little.

**BRDRI Develops Intelligent Sealing and Alarming Device**

Fan Wenru

Recently, an intelligent sealing and alarming device was successfully developed at Beijing Research & Design Institute of Rubber Industry (BRDRI). When used on dry ash transfer valve of thermal power plant, this device will greatly reduce operating costs and bring the plant owner considerable economic and social benefits. In dry ash delivery process of thermal power plant, control of dry ash delivery volume requires use of a special valve, which is an important device in the ash handling system. This valve mainly employs rubber sealed junction and is mounted on the bottom of the valve body. When closed, the spherical surface of the valve core closely contacts with the inner surface of the sealing ring to achieve sealing. Since the sealing ring is mounted inside the transfer valve, the dry ash transfer valve is very easy to be punctured by sand while in operation and the damage resulting from friction is not easy to identify in time, thus worsening the wear of valve core and body and even leading to scrapping. This intelligent sealing and alarming device developed by BRDRI is designed to resolve these problems. When the sealing ring damages, this device can send an alarm automatically and promptly to avoid damage to the valve core and body, thus prolong the service life of the unit and reduce the workload of maintenance of dry ash transfer valve. For these reasons, the device is highly popular among thermal power plants.

**Ethylene Packaged-technology Passes Engineering Appraisal**

Yan Jianting

A 1 million t/a ethylene packaged-technology engineering research project undertaken by four organizations including Beijing Petrochemical Engineering Co., Ltd and Tianhua Institute of Chemical Machinery & Automation passed a technical appraisal organized by Sinopec in Beijing recently. This is just one of the 10 integrated technology projects arranged by Sinopec for two 1-million-t/a ethylene plants, one in Tianjin, the other in Zhenhai.

The two plants were put in place quickly and have been operating for more than a year, thanks to the close cooperation and painstaking efforts of the four organizations working on proprietary cracking technology and some patented separation processes. After a year of performance evaluations, the two plants were confirmed to be operating at international levels in their technical indicators and energy consumption, and have yielded good economic results. The Tianhua-designed quick-cooling boiler system for cracking furnaces, the combustion system and equipment all tallied with design specifications.

**Harbin Petrochemical Patents**

Jiang Yu

Harbin Petrochemical Co, Ltd recently got patents on two of its utility models—an air inlet filter and a phthalic anhydride air pre-heater—from the State Intellectual Property Office and both are already in use. Although they cannot quite compare with more sophisticated inventions, these two nonetheless have a uniquely practical, novel structure and represent the creative problem-solving abilities of the company's technicians. These utility models have proven as useful as expected and mark a good start for the company in its IP efforts.
Zhenghe Petrochemical's New Acrylic Acid Sewage Treatment Technology

Yan Xiaoqiang, Wang Xiaofeng

The Zhenghe Petrochemical Co, Ltd and CSEP Environment recently examined the performance of an upgraded acrylic-acid sewage treatment plant and found that the wastewater treatment for reducing the concentration of organic compounds in discharges from the plant met the National Standards for Sewage Discharge (GB8979-1996) Class-3 criteria, meaning a successful application of this new technology.

To completely deal with the high concentration of organic compounds in wastewater from the acrylic-acid production process, and to remove production bottlenecks and have acceptable sewage discharge, Zhenghe Petrochemical enlarged its acrylic-acid sewage treatment plant in 2010, contracted by the CSEP Environment Co, Ltd, on a turn-key basis, at total cost of more than 9 million yuan. The expansion project, based on existing wastewater treatment experience, uses biochemical technology and an advanced anaerobic reactor to treat this particular high-organic wastewater intensively, with the resulting biogas used to generate power. The new anaerobic treatment unit can operate at 75% to 110% of its design capacity and process up to 6 tons of wastewater an hour.

The project was completed this past September, after a year of construction work. Assessment indicates that the high-concentration acrylic-acid wastewater treated meets design specifications.

The sewage treatment plant is running normally and the project deliverables are being handed over as scheduled.

Sanming Chemical Engineering Machinery’s Mechanical Tire Press

Wang Wenqin

Sanming Chemical Engineering Machinery has developed a 51-in mechanical tire press and a 65.5-in truck tire all-hydraulic curing press, which sets the stage for market expansion in China and abroad. Shown in the picture are Belarusian buyers accepting the 65.5-in hydraulic curing press at company premises.

Shenyang Axle’s Corporate Technical Center Recognized by Liaoning Province

Sun Chuanke

November 17, Chonche Group Shenyang Axle’s technical center was recognized as a corporate technical center of Liaoning province by the Liaoning Provincial Commission of Economy and Information Technology, Provincial Department of Finance and Provincial Bureau of Local Taxation, giving it a boost in its expansion activities, innovative ability, and sustainability.

China Bluestar Chengrand Chemical Standardization Workshop

He Jing

China Bluestar Chengrand Chemical recently held its annual National Plastics Standardization Committee conference and testing techniques workshop in Kaifeng, Henan province, bringing in 260 industry representatives from across the country. The workshop, whose theme was “Testing techniques, standard methods, and equipment”, is the first of its kind held as part of the conference.

The committee has its headquarters at China Bluestar Chengrand Chemical and is responsible for formulating and revising national and plastics industry standards and working with its ISO counterpart. It holds the conference annually to review the relevant standards and discuss technical development, thereby providing a forum for industry experts and technicians to hold exchanges and contribute to the development of standardization in the plastics industry.
Participatory Approach to Fire Safety

Nov 9 was China’s 21st annual fire-safety awareness day, with the theme “Participatory approach to fire safety for everyone’s safety”. On the eve of the event, ChemChina companies conducted a range of awareness activities and fire drills.

The same day, Shandong Changyi Petrochemical conducted a fire drill with a simulated tank fire at its oil tank farm in cooperation with the Changyi Municipal Fire Brigade to educate its employees and management on fire safety and motivate them to get involved in the company-wide campaign. Others participating in the drills included:

Guizhou Crystal, which had a drill, simulating a fire emergency triggered by a hazardous chemical release, and involved safety officers and volunteer firefighters; Double Happiness Tire, which held a pledge ceremony in front of the administration building under the theme “all for one and one for all”, followed by a fire drill involving everyone from the workshops; Shenyang Paraffin Chemical, which conducted a fire drill from a practical perspective, covering theoretical knowledge and field practices designed to keep employees alert at all times to potential safety hazards and able to work together in emergencies; Cangzhou Dahua, where the kindergarten got faculty members and students involved in an evacuation drill and educational event under the theme “fire safety for children”, to make participants more aware of the need for fire safety and to improve the children’s sense of how to protect themselves.

A Nanjing chemical emergency drill, hosted by NWEMC, took place at the Bluestar (Nanjing) New Chemical Material’s THF plant, where the company’s self-help abilities, the emergency response abilities of the chemical park, and the emergency rescue abilities of the government came together fully through a series of well-organized actions. The government of the city of Zigong, Sichuan province held a capacity-building sports event for the private sector that involved 20 delegations for a contest designed to improve fire safety awareness. The Zhonghao Chenguang Institute came out on top.
Love Is Everywhere
-- a Story about a Volunteer, Jia Xing, from Bluestar (Tianjin)

A news item recently carried by Tianjin TV, “Broken-winged Angel Ming Ming”, revealed a secret that had been hidden for three years: a volunteer mentioned in the report was Jia Xing, a young female Bluestar (Tianjin) employee, who has been a member of the Tianjin Volunteers Association for three years and has maintained a long relationship with the Tianjin SOS Children's Village and Orphanage.

Recently, a reporter and Jia Xing went on a special mission — to help Li Yuan go on an outing. Li, 32, has been paralyzed since birth and relies entirely on others in her day-to-day life. She had to hire a nanny recently when her mother, her only source of support, broke a leg in an accident. At Li’s request, Jia Xing drove her to a shopping street and a Korean restaurant, which made Li very happy. Moving the 75-kg Li in and out of the car took the efforts of several people. On the road, Li was excited at everything she saw. Several people took turns pushing her wheelchair. In half a day, Li bought several fancy pieces of clothing, and enjoyed several happy hours that she will cherish for a long time. After taking Li back home, Jia Xing and another volunteer were exhausted. But when they saw the smile on Li’s face, they knew that the effort was really worth it. When they said goodbye, Jia extended an invitation to the reporter, saying, “Come join us! Remember, we’re the Tianjin Volunteers Association.”

I Want to Do Something for the Elderly

A posting on the Shanyang Forum, a local Internet site in Jiaozuo, Henan province, drew the attention of netizens recently. The story is about a warm-hearted youngster who wanted to do something for the elderly by using his technical skills. Shortly afterwards, the posting was noticed by the local newspaper and a growing number of people began calling the number asking for help, and the poster made good on his declaration about providing free home appliance repairs to anyone above the age of 60, in their home, during his spare time. The poster’s name is Shang Zhigang. He’s a mechanic at the inner tube factory of Aeolus Tyre Manufacturing, Department No 1.

Shang’s idea of helping the elderly can attribute to the following: one day, he chanced upon an old lady shopping in a hardware store, who was asking about replacing a metal hose back home, with a piece of metal hose she was holding. But she kept getting ignored, even after several attempts, because of the paltriness of the service fee. Seeing how helpless she was, Shang immediately got the idea of serving the elderly free of charge. So, he posted an offer of help on the local Internet forum, including contact info. He’s received 30 or 40 calls, seven or eight inquiries, and five requests for home service. One caller even volunteered to join him in providing the service, while others just phoned to congratulate him. Some young callers even offered him a job for pay, but he turned them down. He explained, “I don’t do this for fame or money, just to help disadvantaged people, including the elderly, using whatever I have learned from my job at the company to repay the company and society in general.” Shang believes that his effort is a fairly minor one, and has called on others to join him in the effort.

Yuxing Chemical Provides Free Welfare Insurance for Children under 14

Jinan Yuxing Chemical recently arranged collective welfare health insurance for 379 children (only child) aged below the age of 14 and for 18 poverty-stricken families, and the parents of special only-child families, free of charge. The move earned the company a place in the hearts of all employees because it showed the care that the company feels for family planning households. This new coverage expanded the usual age bracket, from 0-7 to 0-14, and extended coverage to the children of migrant people housed temporarily in the dorms of the company’s old factory. The coverage was further expanded to cover poverty-stricken families which had suffered grave illness or other problems. This new arrangement is valid for a year, and subject to automatic renewal up to the 14th year of the insured person, if conditions remain the same. The insurance covers accidents, disease and hospitalization, in a range of 1,000-10,000 yuan.