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Supreme Leader Kim Jong Un inspects Taegwan Glass Factory

Kim Jong Un, chairman of the Workers' Party of Korea, chairman of the State Affairs Commission of the DPRK and supreme commander of the Korean People's Army, gave field guidance to the Taegwan Glass Factory.

Making the rounds of the halls dedicated to education with revolutionary relics and to the history of the factory, the Supreme Leader acquainted himself with the ideological education of its employees.

He highly appreciated that the factory built the bases of ideological education of great educational significance and is running them regularly without fail and effectively conducting the educational work among its officials and employees to deeply implant the undying leadership exploits of the WPK in their hearts.

Looking round valuable photos of President Kim Il Sung and Chairman Kim Jong Il and relics related with their guidance, he said that the glass factory built on the



initiative of the President has turned into the country's leading optical glass production base under the leadership of Kim Jong Il. Recalling that the workers of the factory have resolutely upheld the Party's policy while devotedly working to produce optical glassware urgently needed for the scientific, educational and economic development of the country despite all difficulties, he spoke highly of the course they covered.

At several production workshops

of the factory, the Supreme Leader learned about the production and saw glassware and optical apparatuses newly produced by the factory.

Highly estimating the goods of the factory, he said that as he had said last time, the glassware and optical apparatuses produced by the Taegwan Glass Factory can stand comparison anywhere else.

Pointing out that the world is rapidly changing and developing, he called for directing steady efforts

to putting the factory's overall production and product inspection processes on a modern basis and introducing new technologies without resting on their laurels, and thus producing better optical glass and measuring equipment.

He expressed belief and conviction that the Party members and other workers of the factory would achieve bigger success in the development and production of new goods, true to the Party's line of building an economic power.

He was accompanied by Choe Ryong Hae, member of the Presidium of the Political Bureau of the Central Committee of the WPK, vice-chairman of the State Affairs Commission of the DPRK and vice-chairman of the WPK Central Committee, Jo Yong Won and Kim Yong Su, deputy department directors of the WPK Central Committee, and Kim Chang Son and Ma Won Chun, officials of the State Affairs Commission.

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ECONOMY

Upsurge in different economic sectors

Industrial establishments across the country are bringing about an upsurge in production.

The Namhung Youth Chemical Complex is exerting itself to increase the production of Juche fertilizer. It introduced efficient delivery facilities to the raw material drying process and the reprocessing process of generator so as to markedly increase productivity while saving much labour. It

also refashioned the rod coal moulding machine, established a catalyst production base and solved many scientific and technological problems to overfulfil daily plans. As a result, it produced well over a thousand tons of Juche fertilizer more than the same period of last year by November 15.

The Equipment Assembly Complex carried out its economic plan for the year

at over 150 percent as of November 15. It widely introduced rational and efficient technical innovation plans and working methods to the project for the establishment of the C1 chemical industry, thereby finishing daily assignments for the assembly of ordered equipment at over 110 percent every day.

For the modernization project of the Hungnam Fertilizer

Complex, the Equipment Assembly Complex completed the manufacture and assembly of a circulating fluidized-bed boiler in a short period and speeded up the production of various parts and other processed articles, thus contributing to the implementation of its yearly plan.

The Ministry of Posts and Telecommunications develops and manufactures major equipment needed for the modernization of the sector. The production units under the ministry have so far produced several hundred digital exchange facilities and manufactured and supplied equipment for digital TV relay and for the expansion of data communication

capacity by introducing new technologies.

The Anju Pump Factory produced several hundred pumps more than planned. It ran the cupola furnace at full capacity using locally available fuel to increase the production of castings of different sizes. It also developed dozens of kinds of new pumps and remarkably improved the quality of castings by establishing a casting method based on the foamed plastics template. It fulfilled its annual economic plan at over 114 percent as of November 15.

The Anbyon Youth Power Station Unit 2 has carried out its daily power generation plan at

HERITAGE

Country's heritage, invaluable treasure of nation

To value and properly preserve national heritage is a patriotic undertaking for defending and adding lustre to the history and traditions of a nation.

Historical relics and remains and national traditions show what kind of culture the preceding generations created and how they lived and developed.

The Korean people with a 5 000-year history and traditions developed a rain gauge, metal types and iron-clad vessel for the first time in the world, leaving an indelible mark on the world history of culture.

The DPRK has attached importance to the protection of national heritage on a constant basis.

It resolved all the problems arising in conserving national heritage in keeping with people's aspirations, demands, national

customs, feelings and sentiments by establishing a Juche orientation and remaining faithful to the principle of historical truth and scientific accuracy, and discovered and restored the cultural heritage of the nation in a scientific and technological way, based on historical facts.

As a result, national history which has been carried on through the course of historical development since Tangun's Korea was correctly formulated, large numbers of cultural legacies that had been unknown in history were newly discovered and checked, and excellent cultural heritage elements are handed down to posterity as national treasures.

National heritage conservation is now carried on as one of the important undertakings to step up the building of a civilized

socialist state.

Particular attention is being paid to preserving and managing the relics and remains of national treasure value, and projects to renovate and repair them with national intelligence and talent are implemented on a regular basis.

The month of protection of national heritage was enacted, with the result that the conservation and management of historical sites, scenic spots and natural and living monuments make brisk headway as an undertaking involving the whole country and all the people.

Marked progress was made in the efforts to preserve traditional manners and customs and carry forward and develop them in line with the requirements of the times.

With national culture, arts and customs being positively encouraged, the peasant dance competition, ssirum contest, national cooking festival, national costume show, folk games and Tackwon-Do tournament are held one after another to help young people have a better understanding of national customs and traditions.

Tangible, intangible and natural heritage items continue to be discovered and collected under the close concern of the government and society.



PAK CHANG BOK / THE PYONGYANG TIMES

Jogye Gate at the Sogwang Temple.

By Han Jong Ho PT

RESPONSE

Korean socialism will always emerge victorious

The DPRK, which advances dynamically toward the bright future as it wins victory after victory by dint of single-minded unity under the banner of Juche and socialism, is drawing the admiration of the international community.

The National Committee for the Study of the Juche Idea of the Democratic Republic of Congo issued a bulletin, which said:

"Socialism in the DPRK is invincible.

"What is the secret of its invincibility? In a word, Korean socialism is a people-centred one, in which the masses of the people are masters of everything and everything serves them. It also embodies the Juche idea, a man-centred ideology.

"It is natural that such socialism wins absolute support from the people."

After looking round the Tower of the Juche Idea, the head of the delegation of the British Group for the Study of the Juche Idea,

who visited the DPRK on the occasion of its 70th anniversary, said that the Juche idea created by President Kim Il Sung and enriched by Chairman Kim Jong Il is a beacon which brightly illuminates the path to be followed by humankind.

The Juche idea is the guiding ideology which led the DPRK to victory for 70 years, he said.

On the basis of this ideology, the DPRK has built invincible socialism, he noted.

Chinese Hong Kong magazine International Link said that people-centred socialism was built in the DPRK as it was led by President Kim Il Sung and Chairman Kim Jong Il, the great leaders who infinitely loved the people and devoted their all to them.

The single-minded unity of the leader, Party and people, the eternal viability of Korean-style socialism, resulted from the boundless love of the leaders for the people, it noted.

Korean socialism, which

embodies "The people are my God" idea of the great leaders, has been built up by the politics of love for the people of Supreme Leader Kim Jong Un, it added.

The Socialist Party of Romania posted on its website an article, which said that socialism in the DPRK will be invincible forever.

The article posted by the Juche idea study centre of Brazil on the website said:

"The secret of the DPRK defending its sovereignty and making leaps toward a socialist power, even subjected to the persistent sanctions and pressure by the hostile forces, is that the country upholds the great leaders.

"President Kim Il Sung, founding father of socialist Korea, was the greatest man recognized by the world.

"Chairman Kim Jong Il was the peerlessly great man who firmly defended and added brilliance to Korean socialism in the political turmoil at the end of the 20th century.

"Under the guidance of Supreme Leader Kim Jong Un the Korean people are now winning one victory after another in all fields holding higher the banner of self-reliance."

Compiled from KCNA

PERFORMANCE

Symphony dedicated to Korean socialism



PAK KWANG HUN / THE PYONGYANG TIMES

The National Symphony Orchestra gives concert "Symphony of Socialism".

The National Symphony Orchestra's concert "Symphony of Socialism" is now going on in Pyongyang, winning high acclaim from the audiences.

Produced by the country's most prestigious orchestra in celebration of the 70th anniversary of the DPRK, the symphony wonderfully represents with the refined rendition of orchestral music the infinite love for and pride in the socialist country, happiness the people enjoy in the country and the profound reverence for and high praise of President Kim Il Sung, Chairman Kim Jong Il and Supreme Leader Kim Jong Un who built and developed socialist Korea.

It consists of prelude, finale and seven movements on different themes set according to glory years replete with miracles and epochal changes in the 70-year history of the DPRK.

The performance, which grips the heart of the audience with distinctive arrangement and interpretation of the national anthem, sings of the foundation of the DPRK, the ensuing sea change in its people's lives, the heroic victory they won in the grim war by repulsing the aggressors and the achievements they made in the post-war rehabilitation and the great

Chollima era, in an epic style with the famous songs produced in those years.

It also employs waltz to interpret the happiness of the people that blossoms under the socialist system and merrily executes folk songs which sing of the pleasant sights of "gold mountains", "golden fields" and "gold seas" in a fine ensemble while giving full play to the tones of national bamboo wind instruments.

The performers sing highly of the warmest and earnest praise of Chairman Kim Jong Il who dedicated his all to the people, the spirit of socialist Korea advancing to a higher goal, boundless love for and trust in the great Workers' Party of Korea which is everything in the people's lives and happiness and which guides them to the future of eternal prosperity with deep resonance, beautiful melody, rich emotion and various means of representation.

The performance also includes over 20 world famous music pieces.

The concert shows the energetic spirit of the DPRK which is advancing towards an overall efflorescence of socialism.

By Ri Sang Il PT

INSPECTION

Premier inspects various units

Premier Pak Pong Ju inspected different units.

At the construction site of the Unsan Prospecting Machine Factory, he underlined the importance of the factory in updating the prospecting equipment, and called for thoroughly meeting the requirements of the technical regulations and method of construction.

At the Sunchon Heat Insulating Materials Factory, he called on the scientists and

technical personnel to work hard to realize the local production of finishing building materials and improve the quality of products.

At the consultative meetings held at the Chonsong Youth Coal Mine and the Pyongyang Electronic Medical Appliances Factory under construction, the Premier took measures to attain the goals for this year without fail and update production processes.

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TRANSPORT

Locomotive corps keeps up non-accident run

The Jongju Locomotive Corps has ensured over 30 million-kilometre run of locomotives without accident. Its several engine drivers have carried out their two years' freight transport plans and dozens of others fulfilled their annual plans. There is an engineman who hit his three-year target.

In order to ensure the safe run of locomotives, the corps makes sure that strong discipline is established among engine drivers, crewmen and operation commanding staff and conducts the preparation of engine drivers and locomotives by relying on science and technology.

Lots of technological problems have been settled during the period of non-accident run.

More recently, a number of valuable technical innovation plans were contrived, including a simulated driving system, GPS-based speed display and alarm device and current collector

parts based on black sintered alloy material, to improve the performance of engines and shorten the time of their repair and maintenance.

The simulated driving system helps engine drivers have a good understanding of the characteristics of specific areas in the whole course and the technical specifications of railway tracks so that they can get everything ready for possible circumstances beforehand.

The GPS-based speed display and alarm device presents the technical performance of locomotives during running and makes early warning signals before entering dangerous spots, helping enginemen properly take safety measures.

"The GPS-based speed display and alarm device plays an important role in improving the informatization level of railway and ensuring non-

accident run. We prevented several accidents in a year by introducing the device," said Ri Jun Bok, a technical official of the corps.

The current collector parts based on black sintered alloy material are popular with other railway transport units. The lifespan of previous ones was not so long for their relative softness and their structural transformation during operation. Technicians made new parts, whose serviceable life is dozens of times longer than previously and whose performance has markedly been raised, with alloy materials by using metal shavings from the repair base and waste parts as the main raw materials.

The application of many technical innovation plans conducive to shortening the time of engine repair and maintenance results in an increase in actual running hours of locomotives.

The corps ensured over 31.6 million kilometres of non-accident run of engines as of November 15.

"The engines in our corps ran the distance far enough to go round the earth 790 times without an accident. We'll update the record of non-accident run by dint of technical innovation," said Merited Engine Driver Ri Yong Jun, deputy to the DPRK Supreme People's Assembly and chief engine driver of locomotive Pulgungi 6039 of the Jongju Locomotive Corps.

By Chae Hyang Ok PT



KIM YONG CHAN / THE PYONGYANG TIMES

The Jongju Locomotive Corps carries more freight by scrupulously organizing and directing transport.

Economy: Yearly targets exceeded

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over 110 percent every day.

It has managed production scrupulously to maximize the operating rate of generating equipment and contrived and introduced several technical innovation plans, including the one for remodelling the medal of water turbine, thereby saving a great deal of materials, labour and electricity. It overfulfilled its yearly electricity production plan by 3.6 percent by November 18.

The Hyesan railway branch bureau fulfilled its yearly freight transport plan at 110 percent through an increased transport campaign.

It is pushing ahead with the transport of materials needed for major construction projects as it organizes work in a scientific and rational way and makes the most of existing transport capacity. The Wiyon

locomotive corps contrived and introduced efficient jigs to further consolidate the material and technical foundations of its repair bases. And the Hyesan service brigade of passenger and freight trains increased transport facilities and produced thousands of their parts. The Phophyong railway corps and Samjiyon youth railway station increased the capacity of goods yards and carried more goods.

Achievements are also being made at the tideland reclamation

sites in North Phyongan and South Hwanghae provinces. The General Tideland Reclamation Enterprise of North Phyongan Province finished the primary dam at the first section of the second-stage project for Honggondo tideland reclamation and such enterprise of South Hwanghae Province is carrying out its daily assignment for Ryongmaedo tideland reclamation much faster than previously.

By Pak Song Min PT



RI TONG GYU / THE RODONG SINMUN

The Taean Heavy Machine Complex speeds up the production of custom-built equipment.

FACTORY

Production of small tractors goes up

The Chungsong Tractor Factory in Wonsan of Kangwon Province is increasing the production of a new type of tractors.

Last year, it developed a new type of water-cooled 12 hp tractor which is highly efficient and meets the modern sense of beauty.

The newly-developed Chungsong-122 tractor has safer production processes than those of 8 hp tractor and consumes 40g of oil per kilometre. As it is designed to install two small ploughs and plough up land 18 centimetres deep, it can widely be used in vegetable plots, greenhouses, orchards, tree nurseries and the sector of land and environment.

This year, the factory made strenuous efforts to greet the DPRK's 70th birth anniversary with proud labour achievements, thus carrying out the annual tractor production plan four months ahead of schedule.

The positive introduction

By Yun Kyong Il PT



HAM YONG SOK / THE PYONGYANG TIMES

A new type of tractors produced by the Chungsong Tractor Factory.

TECHNOLOGY

New vacuum deposition machine unveiled

Kim Chaek University of Technology has recently developed a new vacuum deposition machine of a Korean style.

Its research team designed and made a vacuum arc ion deposition machine which can plate various products including zip slide with gold.

It automatically controls various kinds of vacuum valves and pumps, intelligent compound vacuum gauge, zipper hanging jig and power supply based on PLC and HMI.

Researchers have installed frequency converter on all electric motors so that it can

ensure the starting and normal working of vacuum pumps even in low frequency conditions and introduced the PID control into micro injection of gas to maintain fixed pressure on a constant basis.

They have also optimized the effect of such process factors as N2 gas injection pressure, arc discharge current and voltage, ion collection pole voltage and deposition time on adhesive density and colour change of TiN deposition sheet, thereby establishing a rational process of deposition.

Several workteams made jigs and equipment and ensured full operation of machines to overfulfil their daily plans.

Relevant units also contributed to hitting the tractor production target for this year by supplying necessary items of cooperative production in time.

"We'll continue to take the lead in the drive for increased production to attain the goals of the five-year strategy for national economic development without resting on our laurels," said Ri Kyong Min, manager of the factory.

By Ri Myong Jun PT

E-COMMERCE

E-shop attracts more customers

"All the goods in the Apnal e-shop appeal to me for their diversity, good quality and practical value. I have become a regular customer of this shop," said Phyo Un Jong, a resident in Rungna-dong No. 1, Taedonggang District, Pyongyang.

The number of visitors to the e-shop run by the Rim Mi Yong Aeguk Joint Venture Company is on the increase nowadays.

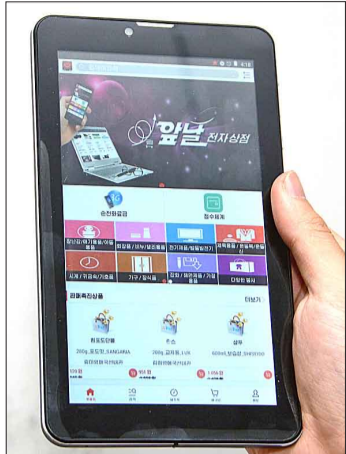
The company provides diverse services through the Rim Mi Yong Aeguk Sonnac Hall and the e-shop.

Located in Sonnac-dong, Mangyongdae District, Pyongyang, the hall is engaged in the marketing and service of luxury goods and dishes and the leasing of office rooms as well.

Kim Tae Il, a staff member of the company, said that the Apnal e-shop sells domestic and foreign goods, and delivers the purchased articles free of charge within 24 hours irrespective of their quantity.

Commodities include household electronic and electric appliances, bags, footwear, clothes, underwear, cosmetics, medicines, sports articles, foodstuffs, precious metal products, daily necessities and furniture, and they number tens of thousands in hundreds of kinds.

Clients can buy goods any time soon in any place through the national computer network and mobile communications



network.

Buyers can bargain with a seller over prices and evaluate the purchased goods. Order service is also available according to the demand of clients, and subscribers can register their goods and sell

them on commission.

The introduction of a premium system based on coupon has made the service more conspicuous. Preferential service is provided according to different kinds of cards, that is, goods can be purchased at discount prices. And bonus goods are given major holidays or birthdays.

The number of subscribers of the e-shop has reached tens of thousands and that of daily visitors is growing day by day.

"We will add and update new and special service forms on a constant basis to make our shop friendlier to the people's life," said Pak Chung Hui, a staff member of the company.

By Jong Hwa Sun PT



RYANG KUM CHOL / THE PYONGYANG TIMES

Employees of the Apnal e-shop brainstorm to improve the quality of customer service.

SHOE-MAKING

Factory focuses on enhancing its brand image

"Nalgae"-brand shoes of the Pyongyang Leather Shoes Factory is winning growing

popularity with a wide range of consumers.

The technical staff of the factory further improved the previous three-dimensional shoe design process by developing a computer-aided foot measuring device, an innovation in diversifying the production of leather shoes and sandals. They developed an original pattern design program and introduced an efficient drawing equipment into the shoe uppers production process to increase the cutting efficiency and far shorten the time of uppers production. They



RYU KWANG HYOK / THE PYONGYANG TIMES

The Pyongyang Leather Shoes Factory turns out fashionable winter boots.

concentrate on improving the quality of products as they employ dozens of new developments such as various kinds of highly adhesive bonding agents and soles of a new type for men's and women's shoes without iron core.

In particular, the newly developed iron core-free soles for men's and women's shoes not only ensure the shape and lifetime of shoes without using iron core but also enable the factory to make lighter shoes with high mobility, thus winning favour with other shoe factories.

Most recently, the factory has launched over a dozen products including new styles of men's leather shoes and women's winter boots.

As they have been designed to suit the characters of force given to the feet according to ages, sexes and purposes, the new shoes increase the wearing stability of the users and cut the

R&D

Recent scientific research hits

The State Academy of Sciences has made phenomenal achievements in scientific research, which are very helpful in developing the national economy and improving the peoples' livelihood.

The researchers at the heat engineering and automation institute solved scientific and technological problems arising in increasing power generation at the Pukchang Thermal Power Complex.

They introduced an oxygen-pulverized anthracite coal ignition and combustion stabilization technology into boilers Nos. 1 and 2 in the project for establishing more power generating facilities at the complex, laying the scientific and technological foundations for increasing power output by thermal power stations.

Scientists of the control machine institute succeeded in developing an industrial robot and optical fibre laser cutter with which to control production processes and save much labour and materials by processing and making high-precision steel plate and products.

The information science and technology institute established an integrated manufacturing system in line with the requirements of the medicine production and quality management standards to modernize the Pyongyang Pharmaceutical Factory.

The ferrous metal research institute exploited the scientific possibility of producing concentrated chrome ore which has higher mechanical properties than the old one with serpentinite richly deposited in the northern part of the country,

thereby putting high-quality alloyed steel production on a Juche basis.

The laser research institute made laser welders, which are able to raise the efficiency of generators while reducing the vibration of machines, and water turbine blade shape measuring devices based on laser light projection, and sent them to such industrial establishments as the Sungni Motor Complex and Taean Heavy Machine Complex.

Mining and power-driven machine research institutes helped modernize the Kangwon Provincial Tree Nursery by making and installing over 100 kinds of machines badly needed for the production of saplings, including those for light substrate production, seed selection and sowing process.

Scientists of the hydraulic engineering institute solved problems arising in the underwater concrete tamping for the foundations and pier of bridge and protection of marine railway embankment to ensure the successful completion of the marine railway construction project.

Those of the silicate engineering institute succeeded in increasing the durability of fireproof materials at the Pusan Iron Works.

The chemical engineering institute of the Hamhung Branch made it possible for the Kwangmyongsong Salt Works to increase its productivity as it completed a new technology for making ion exchange film for the concentration of seawater and its production process.

By Jong Chol PT

burden of exercise.

The new men's leather shoes are unique in the form of shoe uppers and so designed to be worn in doing physical exercise. So the demand for them is on the increase among the elderly as well as young people. The women's winter boots are noted for the good harmony of colour of shoe uppers, heel and sole and the stylish shapes of the neck and outer rim of shoes. As they are designed to meet the physical characters and psychology of young women, they are favoured by many.

The factory has also updated the quality inspection of products to meet the quality indices of all products.

The men's and women's shoes, sandals and children's shoes of the factory were highly appreciated at the national shoes exhibition-2018 in October.

By Choe Kwang Jin PT

Synthetic iron oxide paint developed

The Mirac Industrial Technology Institute under Kim Chaek University of Technology in the DPRK recently developed quality synthetic iron oxide paint with waste material.

This atoxic paint is vivid in colour and strong in adhesive power as it consists of iron oxide minute in particle size and high in purity.

When the paint mixed with other paints or coating materials is applied to building parts, ironware and other objects, there is no discoloration for a long time.

It is also applicable to the production of cosmetics and plastic goods and the fine arts.

Compiled from KCNA

ACROBATICS

DPRK acrobatics expand supremacy

The DPRK's acrobatics have gained dominance in physical stunt as well as aerial feat.

A typical example is physical stunt "Tightrope walking".

The work won the Gold Elephant Prize and popularity prize at the 7th Gold Elephant Prize International Circus Festival held in Spain in February this year and the Idol gold prize, top prize of the Idol-2018 World Acrobatic Art Festival held in Russia in September, and its audience evaluation and media gold prizes.

This work is performed by four acrobats on a six-metre-high tightrope without safety net. It consists of various breath-taking stunts.

The performers are acrobats of the National Circus of the DPRK who gained rich experience in international circus festivals.

They introduced new technical movements to the original work, which became well known through a decade of performances at home and abroad.

The stunt climaxes with backward somersault and jumping over three men.

Rim Un Il, aged 27, performs the thrilling acts that have never been done by anyone else in the world.

And Han Jin and Ri Sang Myong do various feats as they go up and down a 1.6-metre-high triangular ladder and jump over the shoulders on the rope, while 19-year-old Pak Yong Gwang, the youngest of the four, performs a series of movements of high degrees of difficulty on a bar with apparatuses.

"It is the first time that one acrobatic item is given three gold prizes at a time in the history of the Idol World Acrobatic Art Festival. The DPRK acrobats performed a fantastic miracle," said Edgard Zapashny, chairman of the festival organizing committee and also general manager of the Moscow Bolshoi national circus of Russia.

Fred Alan, foreman of the festival international jury, said that the DPRK's acrobatic stunt is at the world's top level and the festival has gained a higher status thanks to the DPRK's acrobatics.

By Song Jong Ho PT



PROVIDED TO THE PYONGYANG TIMES

A scene from physical stunt "Tightrope walking" which claimed three gold prizes.

FOOTWEAR

Ryuwon shoes grow popular

The demand for shoes produced by the Ryuwon Footwear Factory in the DPRK is growing day by day among the local people.

The factory has recently developed sports shoes of boot style for men and women.

The shoes, boot-shaped in outer rim with flat tread, are lighter and more flexible than the ordinary sports shoes.

Various-coloured sports shoes are well-received among the young people.

Those shoes for children have high permeability and endurance

of sole as they are made with the help of hot-pressing technique.

The synthetic leather shoes for professional athletes, too, are very popular as they are made on the basis of hot pressing and multicolour printing techniques.

The Ryuwon Footwear Factory, a standard factory in the country's footwear industry, will mark the 30th anniversary of its foundation on the 24th of this month.

Compiled from KCNA

PROFILE

Five decades with Koryo medicine

The traditional Korean medicine, or Koryo medicine which has developed establishing its own theories and system for thousands of years, remains as a focus of attention in the medical circles for its miraculous and mysterious treatment effects.

The rapid development of Koryo medicine is underpinned by the untiring and unassuming Koryo medical workers who devote their all to putting the traditional medicine on a scientific basis.

Among them is Kim Jong Gil (pictured), researcher at the Academy of Koryo Medicine, who was awarded the title of candidate academician recently.

The 78-year-old professor, Merited Scientist and PhD, has been engrossed in research into Koryo medicine for 50 years.

He embarked on his medical career in the late 1960s.

He majored in chemiophysics at Kim Il Sung University and became a pharmacologist after graduation.

His first subject of research was the analysis of the composition of Koryo insam.

He newly established the insam glycoside colorimetric method that surpassed the old methods of analysis to discover the main components of insam for the first time.

He also studied the amounts of the main components and their changes according to the growing areas and periods and parts of insam and clarified their peculiarities, thus laying



KIM YONG CHAN / THE PYONGYANG TIMES
the foundations for scientific cultivation and processing of insam.

Twenty years of research into the main ingredients of Koryo insam and their contents earned him a PhD in pharmacology, propelling him to fame as an authority in the field of Koryo medicine.

"While carrying out the project to find out the components and mysterious pharmacological effects of Koryo insam, I keenly realized the advantages of the traditional medicine and felt proud of being a Koryo medical scientist," he recalled.

And then he launched into the development of ginkgo leaf extract and establishment of its compounding method.

He discovered a new extraction method that is different from the existing costly method and developed over a dozen kinds of medicines including ginkgo

leaf heart injection and *Salvia miltiorrhiza*-ginkgo injection in a few years.

His ginkgo leaf extraction method caused a great sensation at home and abroad.

The research hit won him the February 16 Science and Technology Prize.

It was highly appreciated at the Shenyang international scientific forum held in China in November 2006 and won a gold prize at the China Dalian international technology trade fair in September 2014.

He has so far developed over 40 kinds of medicines.

He is calm and quiet in everyday life, but passionate and enterprising in research work. Along with the valuable research hits in clinical practice, he authored such books as "Koryo insam", "A collection of research data on Koryo medicinal substances" and "Pharmacopoeia of the DPRK" and trained over 30 to win academic degrees and titles.

He has over 50 certificates which show his decades-long service for the development of Koryo medicine. They reflect not only his unusual talent but also his patriotic mind and enthusiastic efforts devoted to putting the traditional Korean medicine on a scientific footing.

In his twilight years he still works passionately to break new ground of the national medicine.

By Jong Sun Bok PT

FISH PICKLING

Kumsanpho pickles in great demand

In the midst of the kimchi-making season, there is high demand for Kumsanpho pickles.

Pickles have special taste and smell as the ingredients are decomposed by the strong action of enzymes in the intestines of such seafood as anchovy and shellfish and the decomposed substances react to each other to produce new substances. The Koreans have long used the dish in their dietary life, calling it "appetizer".

Adding pickles to kimchi improves its tastes to say nothing of its nutritive value. So they are regarded as an essential ingredient of kimchi.

The Kumsanpho Specialities Shop on Ryomyong Street in Pyongyang is always full of customers.

It sells many kinds of pickles including those made with sand lance, shellfish, anchovy, and green pepper and shrimp and different fish sauces as well.

The goods spiced with different seasonings are packaged in 30 to 1 000-gram containers and are much sought-after.

With Kumsanpho pickles winning growing popularity, many happy faces are seen in the shop. A housewife said

she came to the shop to put Kumsanpho pickles in this year's kimchi for winter use. A granny said her granddaughter ate two bowls of rice for the first time with the pickles.

By Kil Chung Il PT



PYON CHAN U / PICTORIAL KOREA

The Kumsanpho Specialities Shop sells a variety of pickled fish products.

COSTUME

Developing traditional Korean women's suit—*chima* and *jogori*

“Korean traditional costume is further developing to meet the feelings and tastes of its people and the modern sense of beauty while preserving the national character,” said Sim Jun Chan, vice-chairman of the technical preparation committee of the Korean Costume Association, at the recent seminar on ICH protection.

Korean women's suit, *chima* (skirt) and *jogori* (jacket), has been called a “mystery of the East” since olden times. For its original charm and superior qualities, the Korean women, both old and young, like to wear the national costume.

Chima and *jogori* look elegant and are convenient to wear.

Asymmetrical yet balanced proportion of short *jogori* to long *chima*, soft dress line and rhythmicity are the typical characteristics of the traditional women's suit.

In particular, the proportion of short *jogori* and long *chima* constitutes the distinctive feature of their form, a charm unique to them.

Despite the big difference in lengths of *chima* and *jogori*, they give an impression of harmony and sense of security as the two wide curved sleeves and the two long strings of breast-tie complement the area and weight of *jogori*.

Traditionally, Korean women loved to wear *chima* and *jogori* in noble and sober colours and with gentle and delicate patterns.

Today Korean women's suit has seen steady development in every aspect to meet the aesthetic tastes of the times while maintaining its original characteristics.

The Korean Costume Association inscribed the Korean dressing custom as a

national ICH element in 2013, contributing to carrying on the making and dissemination of Korean costume including *chima* and *jogori* and life customs related to it as part of national tradition under government protection and control.

With public interest in the traditional women's suit growing, professional institutions and the academic society have intensified consultations to carry forward the good tradition of *chima* and *jogori*.

The Korean costume show takes place every year as an annual event, drawing a growing number of institutions, organizations and individuals, and it is an important occasion for improving this tradition.

At this year's national Korean costume show on the theme of “Our costume brimming with national flavour” the white *chima* and *jogori* with white flower appliques drawn in the traditional Korean painting technique fixed on sleeves and the width of *chima* and jade green *tangui*, a kind of *jogori*, which was rich in national colour for the refined beauty of lines, softness and delicacy, were most attractive for the good harmony of classical and modern beauties.



KIM KUM JIN / KUMSUGANGSAN

The annual Korean costume show draws many visitors.

EVENT

World Toilet Day observed

A workshop took place at the Grand People's Study House on November 21 to mark World Toilet Day 2018.

The event was attended by officials of relevant units including the State Commission of Science and Technology, Education Commission, Ministry of Urban Management, Ministry of Land and Environment Protection, Ministry of Public Health and

Grand People's Study House and members of UNICEF and WHO country offices in Pyongyang.

Speeches were made under the titles of “On World Toilet Day” and others at the workshop.

The participants watched a multimedia presentation showing toilet building technologies in the rural areas.

Compiled from KCNA



KCNA

A workshop is held at the Grand People's Study House to mark World Toilet Day 2018.

EATERY

Famous eatery on Ryomyong Street

The Ryomyong Street *onban* House is well known to the country for Pyongyang *onban*, or meat soup with rice in it.

This favourite haunt of Pyongyang people is located in Taesong District.

One of the four specialties of the Pyongyang area, *onban* is a national food which is made with rice, meat, mushroom and others.

“Soaked rice is boiled a bit heavily,” said Cha Ok Sil, chef of the house. “Fried agaric or other kinds of mushrooms are put on the boiled rice according to season. Above that is placed boiled meat. For meat, chicken and pork are used at the ratio of 7 to 3. Then you put a spoonful of spiced sauce and a mung-bean pancake garnished with fried and thinly sliced egg before pouring hot chicken soup seasoned with soy sauce and salt as much as the rice is immersed. Then the delicious and nutritious Pyongyang *onban* is completed.”

WINTER FOOD

Kimchi making in full swing



JON SONG IL / THE PYONGYANG TIMES

Housewives devote themselves to making tasty kimchi.

Every household in the country makes winter kimchi in November.

Koreans eat kimchi in all seasons, especially 0.3 to 0.4kg a day on average per capita in winter.

Kimchi is now mass-produced, but most of families prepare the winter food in diverse manners to meet the taste of their family members.

Nowadays, all women are busy preparing kimchi.

They prepare vegetables and such seasonings as powdered red pepper, garlic, ginger, pickled fish, fish and fruit, and share the knack of preparing tasty kimchi with each other.

Seasonings are put differently according to localities and climate.

Some housewives use raw fishes like walleye pollack and flatfish as the material for spices instead of salted shrimp and other pickled fish, and others use leaf mustard and fruits of *Zanthoxylum piperitum* and toothache tree as aromatic vegetable in place of ginger.

They devote themselves to every process of making kimchi, from cleaning to pickling and washing of bok choy and radish and to the mixing of seasonings and the fermentation of kimchi juice.

According to the taste of family members, they make a variety of kimchi including radish kimchi, rolled kimchi, sliced radish kimchi and leaf-mustard kimchi in addition to whole cabbage kimchi, or add chestnut and pear to improve the taste of the food.

Yang Kyong Sil, a resident in Moranbong District and winner of a national kimchi-making contest, said that she does not neglect any process of making kimchi this year, either, including the preparation of seasonings, pickling and fermentation, adding she pays special attention to the storage of kimchi so that the food can preserve its flavour till early spring next year.

Various kinds of mouthwatering kimchi with harmonious taste of seasonings and refreshing flavour are in the making in all households as one of the non-staple foods stimulating their appetite in midwinter.

By Kim Kum Myong PT

Her secret of making tasty chicken soup is to dip out foam and meat oil when the soup begins to boil and to boil it steadily.

“The dish here has sweet, savoury and sapid tastes, but we cannot get such tastes with home-made *onban*,” said an elderly regular customer living in Wolhyang-dong in Moranbong District.

The restaurant was spruced up last year when Ryomyong Street was built, and it is always full of diners.

In addition to *onban*, it serves such traditional dishes as beef entrails soup and boiled rice, roast chicken entrails on skewer, chicken wing boiled down in soy and broiled and juice-dressed meatballs.

By Pang Un Ju PT



PANG UN SIM / KUMSUGANGSAN

Pyongyang *onban*.

ANNIVERSARY

‘Mt Kumgang will shine as mountain for reunification’

Kim Tong Gi, a former unconverted long-term prisoner in south Korea, published an article titled “Mt Kumgang will shine as a mountain for reunification thanks to peerlessly great men” to mark the 20th anniversary of the opening of Mt Kumgang tourism to south Koreans by Chairman Kim Jong Il on November 18 1998.

The following are the excerpts from the article:

Since then, Mt Kumgang has been cherished by all Koreans as a famous mountain for reunification healing the wound suffered by the Koreans due to the tragic national division.

It was in October 1998 that former Honorary President Jong Ju Yong of the south Korean Hyundai Group, who is known in the history of north-south relations for the “entrance of a huge cattle herd to the north through Panmunjom,” met Chairman Kim Jong Il in Pyongyang and was trusted by him with Mt Kumgang tourism.

Chairman Kim Jong Il opened the gate to the area of Mt Kumgang, the frontline area of the highest military

tension where huge troops of the two sides are confronting each other with the military demarcation line in between. This bold decision came from his warm love for the compatriots in the south.

South Koreans toured Mt Kumgang they had pictured only in dreams, seeing and feeling the fantastic scenery beyond description and national flavor.

It drew an endless stream of tourists including politicians, religionists, students and businessmen of the south with a dream of reunification.

Mt Kumgang was just like the “Ojak Bridge” heightening the atmosphere of reunification of the north and the south and promoting reconciliation and unity during the June 15 era.

Ten years have lapsed since the tour was suspended by the US and the south Korean conservative group, but the Korean nation is optimistic about the future.

It is because a new history of Mt Kumgang is being written under the wise guidance of Supreme Leader Kim Jong Un who is identical to Chairman Kim Jong Il.

Thanks to the far-reaching

idea and will of the Supreme Leader who is bringing about a new radical turn in improving inter-Korean relations and accomplishing the cause of national reunification, unimaginable historical events and miracles were witnessed this year and the Korean nation could receive the Panmunjom declaration and the September Pyongyang Joint Declaration, which serve as important landmarks in opening up a new heyday of national reconciliation and unity, peace and prosperity.

As the warm love shown by the Supreme Leader for the people in the south thawed inter-Korean relations of distrust and confrontation, brought about balmy spring to Panmunjom and made autumn rich, south Korean people’s wish to tour Mt Kumgang again will soon come true.

Mt Kumgang will shed brighter rays as the world-famous mountain of the Korean nation reflecting the wish and will of the Koreans to achieve reunification, thanks to warm patriotism and the wise guidance of the great sun Kim Jong Un.

France, US allies, are the same in the light of subordination to the US, but the point at issue is that Japan willingly obeys the US.

A typical example is that Japan tries to railroad the building of a new US military base in Okinawa despite the strong public opposition.

It is hell-bent on the purchase of US-made interceptor missile system and other latest military hardware allegedly to cope with “threat” from the surroundings and stages joint military rehearsals of the Self-Defence Forces with other countries in succession on the pretext of security and threat. All these are dangerous acts to challenge the trend towards peace in the region by staking its fate on the Japan-US alliance.

Japanese politicians are advised to see the trend of the times squarely and behave themselves. If it fails to keep pace with the mainstream of the situation which develops centring on the Korean peninsula, the island country would be driven far away from the Pacific or the earth for good.

Jon Mi Yong, PhD and
associate professor of the
History Department of
Kim Il Sung University

DISPUTE

Sino-US discord worsens, the result?

Antagonism and friction between China and the US are sharpening to have a serious impact on overall international relations.

The bilateral trade conflict is getting fiercer above all.

The US began to impose 25 percent tariffs on imports from China worth \$50 billion in July on the pretext that the latter was \$370 billion in the black in trade with it, infringed intellectual property rights and thieved up-to-date technologies. To that, China responded with equivalent retaliatory tariffs. In September the US slapped 10 percent tariffs on Chinese goods worth \$200 billion in reprisal and threatened to apply 25 percent tariffs on all its goods worth over \$500 billion for the reason that China additionally brought the case against the US to the World Trade Organization.

On the other hand the US made public in August a foreign investment risk rating modernization act (FIRRMA) which is geared to taking strict control of such issues as the takeover of US companies by foreign enterprises, their illegal transfer of dual-use technologies and the protection of artificial intelligence, robot and other advanced technologies from the viewpoint of national security. The act especially specified comprehensive restrictions on China’s investment activities in the US and prohibited Huawei and ZTE, China’s leading mobile communications businesses, from providing services in the country.

The bilateral discord is getting sharper also in the diplomatic field.

At the UN General Assembly in mid-September, the US claimed that China was trying to interfere in its off-year election in November. Then the latter retorted that noninterference is its diplomatic tradition and proposed Beijing-based US embassy and the US Department of State entering into strict negotiations for the correction of the US claim.

And when a senior American official made a speech at the Hudson Institute in early October, arguing about “China threat” and revealing the intention to contain the country, Chinese experts in international affairs likened the speech to the address Winston Churchill delivered concerning the “Iron Curtain” in 1946 and commented that it signalled the start of a “new Sino-US cold war”.

Some days afterwards, senior officials of both countries got together in China and had a bitter quarrel, only to bring to the fore the bilateral tension and discord at official talks.

The US also incites anti-Chinese atmosphere on the international arena in every way in a bid to pressurize China.

Most recently, the US reproached the International Monetary Fund for failing to take drastic measures against the

export profit-oriented devaluation by China, while high-ranking American officials on their visits to its neighbouring countries and Central American nations advised them to be alert to China’s advance for trade and cooperation, claiming that they are consistent with “debt diplomacy” and “debt trap”.

The US, which astounded the world by unilaterally withdrawing from the UN Human Rights Council, the Paris agreement on climate change and other international organizations and treaties, quit the Universal Postal Union of the UN on October 16. The reason it cited was that the UPU reduced China’s mail delivery charges as it treated the economic giant as a developing country, thereby placing the US manufacturing industry at a disadvantage while offering China an opportunity to capture markets.

China brands such US act as an ungrounded slander against its domestic and foreign policies and a queer theory to mud-sling the country. The Chinese ministries of foreign affairs and commerce published statements to urge the US to discontinue pursuing the estrangement policy for isolating the country.

The same is the case with the military field.

The second bilateral diplomatic and security dialogue slated for mid-October was cancelled all of a sudden. And the US warship’s call at a Hong Kong port and the Chinese admiral’s US visit were also called off.

In late September the US announced its plan for arms sale to Taiwan worth over \$330 million and dispatched its destroyer and strategic bomber to the South China Sea, sensitive disputed waters, under the signboard of “freedom of navigation and flight”. China is resolutely reacting to the US acts, asserting that they are contrary to international law and basic rules of international relations and do harm to its sovereignty, security and interests. When the US Navy’s destroyer Decatur intruded into the waters near an island with reefs in the South China Sea, a Chinese warship on an identification mission approached it as near as 40 metres to demand the change of its course.

An atmosphere of bilateral fence-mending was created with the arrangement of Sino-US talks which were held on the occasion of the 5th ASEAN defence ministers’ enlarged meeting on October 18.

Experts are of the opinion that the bilateral discord and confrontation escalating in different fields may lead to another cold war in the world.

O Ryong Chol,
fellow at the DPRK Institute of
International Studies

COMMENT

Political dwarf

Japan has been denounced as a “political dwarf” by the world public.

However loudly it boasts of economic and technical growth and prosperity, they still view it as the same.

The political immaturity of the Japanese politicians finds expression in the fact that they make only nonsensical remarks without correctly seeing what happens in the situation in the Korean peninsula just before their eyes.

The DPRK has taken a series of proactive and positive measures for peace and prosperity in the Korean peninsula and the Asia-Pacific region, resulting in eye-opening changes taking place one after another in the region with the peninsula at the centre.

The whole world voices warm welcome and support to them, but only neighbouring Japan feigns ignorance of them like a blind fool who sees and hears them, but does not realize what they mean.

It tries in every way to deny the trend of the situation that even a mere child would understand and insists on

the disgusting anti-DPRK smear campaign to incite confrontation.

Japan is ridiculed as a “political dwarf” mainly because of its pro-US subservience.

It developed subservience and subordination to the US as part of its mental qualities and ingrained habit in the historical course of invading other nations with the backing of the US.

When the US had announced it would not hold a summit with the DPRK just before the historic Singapore summit talks this year, Japan was so elated to say that the summit was unnecessary. But as the summit meeting schedule was fixed and became a fait accompli, it took a U-turn in its stand to break into “rapturous applause”. This fully revealed the pro-US subservience of Japanese politics which is as changeable as chameleon to flatter its master submissively without its own political view or principle.

Kimura Akira, a director of the Japanese Peace Society, said in his book that Britain and

NATIONAL TREE

Pine tree embodies national spirit

Pine tree, the national tree of the DPRK, is a viable evergreen.

As it grows in any place striking roots even on the rocks, the Korean ancestors viewed it as a typical natural scene and often depicted it in their paintings.

Seen on the murals of Ryongsanri tombs Nos. 1 and 4 dating back to the Koguryo Dynasty are pine trees standing firm against the strong wind.

Famous artist Solgo in the period of the Three Kingdoms and Tae Kan Ji, a man of Palhae, also drew their masterpieces showing pine tree and the landscape of pine trees.

The Korean people compared national feelings and spirit to the tree.

They saw their resolute, lofty and passionate feelings in the solemn look of the tree that stretches its strong trunk and branches proudly bearing thick pine needles and regarded the

greenness of pine needles as the spirit of the nation to rise up a hundred times even if they fall a hundred times in the fight against aggressors.

Their beloved tree is now growing throughout the country.

By **Jong Tang Song** PT



CHOE MI GYONG / THE PYONGYANG TIMES

Pine, national tree of the DPRK.

FOLK DANCE

Time-honoured sword dance

Sword dance has been handed down by the ancestors since ancient times in Korea.

As the sword was an important weapon in wars and conflicts at the time, vigorous sword dances were widely spread to express the joy or in the hope of victory in battles or wars.

Originally, there was a single-sword dance, but it developed into a two-sword dance mixed with stunts and a masked sword dance in the period of the Three Kingdoms (early 3rd century BC- AD mid-7th century).

Jochon dance and other folk dances of Koryo (918-1392)

included the sword dance, which shows that it was popular even in the period of the Koryo Dynasty.

The movements of sword dance got more diversified and artistic in the period of the feudal Joseon dynasty (1392-1910).

Today the National Folk Art Troupe has further developed the rhythmic movements peculiar to sword dance and rich with national flavour in keeping with modern aesthetic taste to win public acclaim.

Compiled from **KCNA**

SOCCER

2017-2018 DPRK Premier League ends

The 2017-2018 DPRK Premier League matches came to a close.

April 25 took the first place and Ryomyong finished runner-up in the league matches.

Both clubs got the qualification for the 2019 AFC Cup.

Om Chol Song and An Tae

Song of April 25 were selected as the best player and the best goalkeeper of the league respectively. And An Il Bom of the same club won the position of the top scorer by scoring 19 goals.

Compiled from **KCNA**

SPORTS SCIENCE

Sports get more science-based

Scientific training means and methods and fatigue relieving means which are good for improving the physical, technical and tactical potential of sportspeople are actively explored and introduced.

The sports science institute of the Academy of Sports Science has newly completed the education and training support system for various sports, especially volleyball, track and field, diving and badminton.

The sports medical institute has made notable achievements in research into burdens in every stage of training, traumatic treatment and constitution of excellent health conditions of wrestlers, ice hockey players, gymnasts and judoists.

The sports nutrition institute has developed a highly-efficient nutrient, fatigue relieving agent and weight controlling agent conducive to enhancing the physical abilities of players and rapidly relieving fatigue by relying on domestic raw materials and natural medicinal

materials.

The State Academy of Sciences and other scientific research institutions have brought out the weightlifting training data analysis program and the shooting education and training support system to help the training of sportspeople.

The Pyongyang Aviation Club has developed a parachuting simulation training instrument to help parachutists get skilled in the control of parachutes to cope with various circumstances of jumping including height, distance and wind speed.

The Pyongyang Sports Club and Sosong District Juvenile Sports School have respectively developed the gymnastics on trampolines and training result analysis system and a table tennis driving measuring instrument, thus winning high appraisal at the recent 22nd national sports sci-tech achievement exhibition.

By **Kim Ryong Jin** PT



KANG CHOL HO

Mirae Scientists Street was completed in 2015, or in a matter of one year. "Mirae" means "future" in English, and the word was attached to the street name as the future of a country or nation hinges on the development of science and technology.

The street is lined with high-rise apartment buildings for thousands of families and over 150 cultural and welfare facilities.

The residents of these houses are ordinary lecturers and scientists of Kim Chaek University of Technology, other universities and research institutions. Photo shows a nocturnal view of the street.

