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## **First-stage remodelling of Kumsong Tractor Factory completed**

### **KCNA**

The first-stage goal of the Kumsong Tractor Factory remodelling project

was attained under the factory into an all-purpose a treasured factory which plan of the Party Central Committee to dynamically propel the rural revolution machines including highin the new era by turning the horsepower tractors and

factory producing various kinds of efficient farm

directs the development of the country's agricultural machine industry.

The completion of



A ceremony takes place on November 2 for the completion of the firststage reconstruction and modernization project of the Kumsong Tractor Factory.

the production building covering tens of thousands of square meters and housing modern equipment and advanced production processes and the completion of construction and modernization of 10odd objects including foundry, cast steel shop, sheet metal shop and forging shop have laid a reliable foundation for mass-producing highperformance tractors and farm machines and provided an important base for vigorously pushing ahead with the development of the country's vehicle industry.

An inaugural ceremony took place on the spot on November 2.

Present at the ceremony was Kim Tok Hun, member of the Presidium of the Political Bureau of the Central Committee of the Workers' Party of Korea, vice-president of the State Affairs Commission of the DPRK and premier of the Cabinet.

Also present were Jon Hyon Chol, secretary of the Central Committee of the Workers' Party of Korea, Yang Sung Ho, vice-premier of the Cabinet, Ri Jae Nam, chief secretary of the Nampho City Committee of the WPK, Song Sung Chol, chairman of the Nampho City People's Committee, officials concerned, officials of Nampho City and the factory, working people, officials of construction and relevant units and builders.

Kim Tok Hun made an inaugural address.

After the ceremony, the participants looked round the factory.



## WPK's blueprint for rural development in new era

By Jong Hwa Sun PT

agricultural Based on the inherent and bringing about a contributing to the prosperity Hwanghae Province, the system and enhancement on local resources. requirements of socialist fundamental change in the of the socialist country with biggest agricultural province of the roles of cities and living environment of the countryside.

rapid development of course, the agricultural workforce workers' enthusiasm for

were delivered to South a powerful state guidance building materials that rely counties directly responsible for the local construction, while the construction of rural dwelling houses are underway with vigour in all parts of the country. The rural dwelling house construction headquarters were organized and cement is preferentially supplied to those construction projects. Designs for rural dwellings are produced at a high level and measures are taken to send necessary workforce materials to the and construction sites. Finishing materials production bases have been established in provinces, cities and counties for the towards rural dwelling construction mobilization of powerful projects and they are striving

munitions industry sector state support, activation of to develop high-quality

On October 10, the Rvonpho Greenhouse Farm

rural development, specific conditions of the DPRK, desire of the people and scientific analysis of the potentiality and foundation of its own, the Fourth Plenary Meeting of the Eighth Central Committee of the Workers' Party of Korea set forth a new programme for rural construction to open up a new era of effecting drastic development of socialist countryside by pushing forward with the rural development.

It also put up the targets to be attained in the Korean-style rural development: enhancing the level of ideological awareness of agricultural workers, achieving а

The agricultural workers are the motive force of the rural development, and it is the most crucial task in socialist rural construction and a key factor for its victory to make them main players and masters of the rural development.

To this end, educational efforts are dynamically conducted make to collectivism predominant ideological in their consciousness and life under the slogan of "One for all and all for one!" and to make them follow the examples of hero farmers and patriotic farmers of pieces of new agricultural former generations. In that

agricultural production is growing stronger.

It is a firm guarantee for rural development to upgrade the agricultural production environment.

At present, the agricultural sector pushes ahead with the works to adjust, further reinforce and

complete irrigation systems, to produce and supply agricultural materials such as various kinds of modern and efficient agricultural machines, fertilizers and agrochemicals, to diffuse advanced agricultural technologies and to increase its own technical forces. In September, 5 500 machinery made in the

of the country. It is the most important task of socialist rural construction to bring about fundamental changes in

the aspects and living environment of the countryside.

It is the rural construction policy of the WPK to turn all rural villages across the country into rich and cultured socialist ideal villages in the near future, and its main requirement in the construction is to modernize mountainous, plain and coastal areas in accordance with their own characteristics.

Therefore, efforts directed

are

was inaugurated in South Hamgyong Province. Over 850 hydroponic and soil greenhouses have been built in a modern, intensive and industrial way in a vast area of 280 hectares, unfolding a sea of greenhouses. The vast farm area presents a spectacular view with the remarkable harmony of over 1 000 dwelling houses, schools, a hall of culture and complex service facilities that retain local characteristics.

The significant changes for rural development being made in the country clearly show the vitality of the WPK's rural construction programme.

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## TOP NEWS Premier Kim inspects North, South Phyongan provinces



Premier Kim Tok Hun (third from right) visits the Oryong Farm in Mundok County, South Phyongan Province.

## National sci-tech exhibitions held

### KCNA

#### In sports science sector The 24th National

Exhibition of Achievements in Sports Science and Technology took place from October 3 to 31 under the tech achievements made by Kim Chaek University sponsorship of the Ministry of Physical Culture and Academy of Sports Science, Engineering Branch of the Sports.

The exhibition, held in Education, a virtual exhibition mode University of Physical through the technical trade Education, and Pyongyang service system Jagangryok University of Medical a virtual sci-tech exhibition website, was aimed to give Sciences. wide publicity to, exchange and disseminate the successes made this year and promote the development of sports Tech science and technology of started on November 1 the country

The exhibition was divided into panels of program. measuring

### athletic medicine materials, science and and sci-tech videos.

On display there were more graduate than 540 excellent sports sci-

### In nanotechnology sector The National Nano Sciunder the sponsorship of the exhibition there was a Korean Nano Technology lecture on the global trend Association of the Central of the nanotechnology instruments, Committee of the General development.

apparatuses, Federation of Science and and nutritive Technology of Korea. Participating in the

technology books, papers exhibition were officials, lecturers, researchers and students from Kim Il Sung University, 200-odd units, including the of Technology, the Nano Korea University of Physical State Academy of Sciences Phyongsong and Pyongyang University of Medical Sciences.

The exhibition, divided into and a sci-tech presentation through video conferencing, is a collection of over 20 exhibits and data on more Exhibition-2022 than 40 achievements.

On the sidelines of the

### **KCNA**

Premier Kim Tok Hun, Presidium of the Political Affairs Commission of the a year's farming. DPRK, made field survey provinces.

year's farming.

He learned in detail about this year's grain production and the immediate threshing, South Phyongan Province, he who is also member of the urging the officials to scrupulously direct all the the supply of food and the Bureau of the Central farm work step by step with Committee of the Workers' redoubled efforts and a high Party of Korea and vice- sense of responsibility at the cereals policy. president of the State important time of concluding

At the Jongju Chicken administration sectors in of Poultry, he underlined South and North Phyongan the need to keep in mind Inspecting several farms to supply the people with in Anju City and Sukchon greater amount of tasty and and Pakchon County of stepwise goal of breeding pure breeds in poultry North Phyongan Province, chicken in line with the farming and making the breeds

At some food supply stations and grain stores in called for steadily improving sale of grain in keeping with the requirements of the state

consultative Field meetings discussed the issues of stepping up the of the agricultural and food Institute under the Academy threshing in a qualitative way in time by mobilizing manpower and means in a the Party's noble intention rational way and making preparations for next year's farming in a substantial way, and Mundok counties of nutritious meat and eggs, to intensifying the research into South Phyongan Province set and carry out a realistic a better system of keeping he gave a pep talk to the trend of the development of most of the successes made agricultural workers striving poultry farming and to direct in food administration and to successfully conclude this efforts to raising various generalizing good experience and took relevant steps.

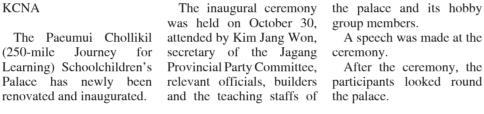
A speech was made at the

After the ceremony, the

## Schoolchildren's palace renovated

### **KCNA**

front view of renovated the Paeumui Chollikil Schoolchildren's Palace in Jagang Province.





2021-2022 DPRK

finished The 2021-2022 DPRK Women's Premier League of IT Achievements-2022 The certificates, cups and was finished.

won the event, with the enterprises and the best IT April 25 and Amnokgang products were selected there. National sports contest coming second and third The 2022 top ten IT of students of schools for respectively.

2021-2022 DPRK Women's awarded to the Jungphyong Contest of Students of first, followed by South and tasty ones. Premier League took place Greenhouse Farm, the Schools for Orphans-2022 Phyongan Province and The fragrance of roast are brisk technical exchanges at Kim II Sung Stadium on Tachongdan County Potato took place in Phyongsong Pyongyang Municipality. October 30.

were awarded to the and others assessed to be 31. winning teams and players most advanced in putting Watching the contest were the capital city in autumn Women's clothes and displayed high skills, on an IT basis. play.

### Women's Premier League National Exhibition of IT Achievements-2022 closes The National Exhibition enterprises in 2022.

closed on October 31. The Naegohyang team IT model units, the best IT top ten IT products in 2022.

model unit certificates orphans-2022 held

Computer Joint Venture Provincial Company were among those Committee,

Processing Factory, the City of South Phyongan Trophies and medals Sinuiju Cosmetics Factory Province from October 28 to Fragrance of roast

who registered good results production and management Kim Sung Du, chairman of The appetizing smell of exhibition-2022 goes on the Education Commission, roast chestnut and sweet The Women's Clothes Foreign diplomats and IT Centre and the Achim of the South Phyongan parts of Pyongyang and the many visitors every day.

schools for orphans.

**HOME NEWS** 

medals were awarded to the from schools for orphans with people. across the country competed other sporting events.

In the total standings,

### chestnut, sweet potato fills

People's laughter of citizens add to the officials beauty of its autumn scenery. Exhibition House, the venue appreciated as the top ten IT concerned and students of The roast chestnut and of the exhibition, is crowded sweet potato stalls along with people coming to feel

in basketball, volleyball, Guidance Bureau of Public that public interest in and high jump, long jump and Catering Service pay due aesthetic demand for the chestnut and sweet potato to growing stronger with the An award ceremony of the and signboards were The National Sports Kangwon Province came serve the citizens with fresh exhibition as an occasion.

The Three-Revolution More than 300 children streets are always crowded Korean-style flavour, aroma and fashion.

Many units of the Visitors said in unison attention to the storage of women's dress culture are

Witnessed at the exhibition chestnut and sweet potato among garment processing pervading the city adds to its units, consultation between autumnal scene every year. customers and technicians and officials of garment production units and order and sale of products.

sportsmanship and fair The Samhung Economic Pak Chol Ho, vice-chairman potato served at the different Exhibition-2022 is drawing other guests in Pyongyang also visited the exhibition.

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### **KEY INDUSTRIES**

## Machine-building giant employs new sand sintering prevention, iron melting techniques

### By Kim Il Jin PT

Sung Gwan, deputy chief moulds and mould cores. engineer of the Taean Heavy

Machine Complex. castings.

Consequently, much labour and time were wasted large castings. in desanding and processing and the casting success rate castings were not improved. Technicians of the complex production process. came up with the idea that a locally available material could be used as the main prevention technology.

They

rounds several The development of experiments, decided on the the sand sintering rational mixing ratio of the prevention technology fireproof coating material provided a scientific and and selected the thickness technical guarantee for of the coating layer and the producing quality parts of number of coating according large machinery, said So to the properties of the

The profitable sand sintering prevention Since the complex and technology was registered many other units were relying as a national sci-tech on a moulding method achievement and has been based on silica coating, they introduced to dozens of generally failed to get rid of factories and enterprises sand sintering of large steel across the country and contributed to improving the quality and productivity of

The complex developed and introduced a and productivity of large new electric furnace melting method into the casting

The method proved effective in casting production as it can greatly fireproof coating material increase the feeding in the casting process while proportion of pig iron developing the sand sintering produced at oxygen blasting furnaces, reduce the content scientifically of impurities in molten iron confirmed the practicability down to the standard and 20-25 percent and ensured blowholes in castings, even the consumption of high sulfur content.

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

shorten the melting time. the new melting method deoxidizing effect and standard feeding amount.

reduced the melting time by completely

The introduction of molten iron with a strong scrap iron was fed than the

proper desulphuration of though five times more light ferromanganese, ferrosilicon and aluminium by ten percent while feeding three eliminated It also helped reduce times more pig iron with

O JIN IL / RODONG SINMUN

### Power output rises across country



### By Chae Hyang Ok PT

he electric power industry production.

The Pyongyang Therman loss of boilers.

electricity than before.

The Chongchongang Industry. Thermal Power Station Meanwhile, the hydroelecblower and exhauster and efficient operation. feed pump.

thermal power stations have production successes by introduced useful water ensuring the high-efficiency sector treatment technologies operation of generating increases electricity into boilers to reduce facilities. the consumption of coal and remarkably boost the Thaechor

The East Pyongyang consumption per unit and per generator.

Hochongang power stations power-factor.

Station puts electricity production on ormal track

RI TONG MYONG / RODONG SINMUN

"In recent years, different are expanding power

The Jangjingang, ichon and othe Power Station increases the output of steam. And they power stations rationalize effectiveness of insulating have applied different load dispatch while pushing bricks to minimize the heat advanced technologies technical innovation to to lower the norm of increase the power output

Thermal Power Station laid scientific and technical The Mirim Barrage Power boosts the thermal efficiency foundations for boosting Station overfulfils its daily of boilers by introducing power production," said plan while always keeping water treatment technology Paek Kwang Hak, section watch on the water level based on electric field so chief of the Electric Power as the amount of flowing as to produce much more Informatics Institute of the water is large and frequently Ministry of Electric Power changes and taking timely and proper measures.

The power distribution has channelled efforts into tric power generation sector stations in different parts technical innovation to directs effort to putting of the country introduce an steadily increase power floodgate management on a advanced measuring system production, for example, scientific basis and ensuring to reduce the loss of power replacing the blades of high-water level and highly in transmission and contrive and introduce technical remodelling the blades of The Suphung and innovation plans to help raise

Technical innovation helps plant boost iron production

### By Yun Kyong Il PT

The Posan Iron Works were recently appointed as erosiveness, technicians has solved the **L** problems arising in normalizing production by dint of several technical innovations, including the invention and introduction of distinct roll of belt conveyor and plastic sliding bearing, on the principle of ensuring self-sufficiency, profitability and quality catcher.

improvement. The secret of success was to encourage a mass an idea hit me. I translated it able to produce quality fire technical innovation drive. and invent, this is what members. Their zeal for increase the lifetime of the the factory suggests to technical innovation is quite kiln. all employees" manager of the factory.

to conceive, the factory the workplace is that all firing the rotary kiln. pays special attention to workers there conceive Ignition is an important who will play a pacesetter through the relevant project. normal operation of the kiln. role at workteams.

Last year, it began to find out and appoint competent and highly enterprising from coal mines.

in refashioning a rail Chon says. straightener and the main As it had been proved rotary kiln, thus remarkably parts of the crane of the that waste products from reducing the cost of raw material workshop to coal mines are refractory production.

suit the actual conditions raw material strong in in the first half of this year, resistance to heat and workteam leaders.

Among them is Ro Chun to discover that the waste Il, a workteam leader of the pulverized coal workshop, who contributed to raising the relevant productivity nearly two times by inventing and introducing a simple-structure weight valve for the pulverized coal

"Sometime ago, when I kiln was reading technical data, says the strong," he says.

produces quality fire bricks consumed much fuel by using the waste products previously.

important processes, and fire bricks can be regarded quantity of the relevant fuel.

further intensified research products can substitute for clay because of their strong viscosity.

They established the technology of producing fire bricks by using both the waste products from coal mines and the broken bricks from periodical repair of the

As a result, they are now into practice by pooling the bricks without worry about "Let us all speculate wisdom of my workteam the materials so as to help

Such a zeal can be felt at technical innovation in the While helping employees another production site. factory in the first half of this raise the level of their What is noteworthy in year is the introduction of a knowledge and their ability technical innovation at reformate-based ignition for

putting up pillars with those any idea together and carry process for ensuring the The refractory workshop It is said that ignition

It was done not once or persons as leaders of the "The heart of the iron twice a year, and there the workteams responsible for works is the rotary kiln and iron works consumed a large this has proved effective. as the lifeline in ensuring Then the factory Several persons, who the lifetime of the kiln," introduced the ignition played an important role senior engineer Son Myong using reformate made from waste vinyl for firing the DAIRY PRODUCTS





JO MYONG IL / RODONG SINMUN

The branch farm of the Hungsang Milch Cow Farm in South Hamgyong Province solves the problem of cattle feed by introducing hydroponic cultivation of barley sprout.

## Branch farm increases milk production

#### By Han Jong Ho PT

milk production.

Built in June this year, world. the branch farm has ensured hydroponic cultivation of the province added a arising in the cultivation system as well as the light barley sprouts to feed dairy 300-square-metre barely of barley sprouts one by COWS.

livestock farming, barley built. sprout has richer coarse protein content than barley and maize. Therefore, hydroponic cultivation are of the branch farm.

production

processes

established

ideal feed for grass-eating humidity, The branch farm of domestic animals like cow ventilation and others. the Hungsang Milch and goat and for this reason

barley sprout has become an very sensitive to temperature, Now three employees barley sprouts in all four farming units as it enables

Cow Farm in South there is a growing trend beginner to this work. So the cultivation ground. It is fed on barley sprouts, their area with a small manpower Hamgyong Province is towards mass-producing we made some mistakes at the same amount of feed to fattening and breeding and area, meets the actual increasing the amount of barley sprouts by means of the beginning. For example, be produced in dozens of rates have shot up and milk hydroponic cultivation in the barley seeds did not sprout hectares of land. well in the cultivating bed. sprout cultivation ground to one by running the sci-tech According to experts on the branch farm when it was diffusion room effectively and improving the technical Technicians say that barley knowledge and skills of sprouts that are grown by employees," said an official

brightness, harvest about 20cm tall seasons. fresh green barley sprouts

The cultivation ground control system favourable conditions for producing facilities sprouts uninterruptedly even in midwinter to properly feed

By Ko Kwang Yon PT

on an industrial basis.

powder for acidophilus milk

production of milk products

production has increased.

To follow this trend, We solved sci-tech problems is equipped with a heating processed into tasty and fragrant dairy products in the milk processing room for the growth of barley equipped with spray drying sprouts, thereby providing milk powder production

> of barley sprout attracts the milch cows highly nutritious growing interest of livestock milch cows of good breeds.

The fermentation research concentration cultivation of as taste, fragrance, acidity,

institute of the academy bacteria and solved technical viscosity and digestibility.

has succeeded in putting the the mixture ratio of various quite good for children and it

like lactic acid spore powder, drying room, thus succeeded of industrial method to the

and its storage stability can the lactic acid spore powder sufficiently produce and

also be enhanced," said Ryu developed by applying supply the spore for the

Researchers of the institute and vacuum freeze-drying The institute sends the spore

ensured the microbe number technologies is high in activity powder to such producers

index of the spore, and The researchers added the striving to solve sci-tech

introduced a method of storing spore powder to goat and problems arising in further

cultures by freeze-drying to cow milk to make highly raising the quality of milk

improve its storage stability. nutritious acidophilus milk products and boosting the

They used natural raw that conforms completely to activity of the powder.

L of foodstuff industry problems arising in fixing

"If applied microorganisms set up an analytical laboratory,

are made in a powder form a culture room and a freeze-

Kum Byol, section chief of the the spore activation, high-

per gram, a basic qualitative and is good for storage.

production of lactic acid spore additives scientifically.

it can be used directly for the in test production.

materials to make nutrient the national standard in terms

sources needed for high- of qualitative indexes such

They then established a a week than raw goat and

spore production process and cow milk that can be kept for

According to an expert, has made it possible to

concentration liquid culture acidophilus milk.

them to secure as much The employees say that feed as it can be produced "We were complete every five or seven days in since the milch cows were in hundreds of times larger conditions of the country whose cultivated land is The produced milk is limited and is a good way of solving the problem of domestic animal feed

On the basis of this success the farm steps up the work to increase the output of dairy products by building more The hydroponic cultivation barley sprout cultivation grounds and securing more

The acidophilus milk is

has a longer shelf life of about

The successful application

spore powder production

mass-production of quality

across the country while

merely several hours.

Production of spore powder for acidophilus milk industrialized



KIM IL JIN / THE PYONGYANG TIMES

Researchers perform experiments on lactic acid powder for the production of yogurt at the fermentation research institute of the academy of foodstuff industry.

By Kil Chung II PT Suitable dairy agang Province has

conditions.

production

chip.

The Jangjasan General

simultaneously. established production Foodstuff a Factory Children's Foodstuff the acidity of processed and spray milk powder processes of dairy established a yogurt Factory newly built a products rapidly and production facilities which products to meet the actual boiling method based on fermentation room with accurately by putting the were practically made to active electric boiler to the capacity of one ton, measuring process of meet the amount needed The Kanggye Goat Farm save large amounts of which can regularly materials on a scientific by relevant areas and units and Huichon City Goat electricity and shorten the ensure the temperature of and automatic footing. Farm automatically control time of milk boiling by 40~42°C, and installed The Songwon County the temperature and time of half, while the Jonchon an automatic temperature Foodstuff Factory shortens is building a large-capacity sterilization, fermentation County Foodstuff Factory controller so that lactic the cooling time by two goat farm and milk powder and storage processes prevents the degeneration acid can be fermented in hours while using no production base on Sadok by establishing yogurt of products and increases optimal temperature. electricity with the help of tableland with a vast stretch

based on computers on a sterilization and cooling Foodstuff Factory ensures the accuracy of feeding The Kanggye City materials and analyzes

processes productivity by conducting The Junggang County a natural cooling device. of natural grassland.

Production units are furnished with yogurt production equipment in the province.

Meanwhile, the province









The fatigue-relieving T-shirt invented at Pyongyang Han Tok Su University of Light Industry. flow By Jong Chol PT blood and metabolism with special

thermic effect.

stopping pain.

peripheral

They also

alleviating tension and

### R&D

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# New diamond grinding blade proves cost-effective

### It is hard and highly resistant to abrasion with superior property of holding diamond particles.

### By Pang Un Ju PT

grinding iamond by tool producers and their grinding blades. users.

metallic materials

Among such tools including diamond efficiency depends on their such binders. blades

performance and started the relevant research.

blade, which was the production of diamond developed recently grinding blade is the favorably commented upon and resistance to abrasion of

In the course of analyzing In general, diamond tools the global application or superhard alloy tools of metal binders, the materials such as stone or attention to the fact that

In the course of this, they Section chief Cha Sang came to the conclusion Jun and other researchers that they can successfully of the research group set a produce a quality binder on imported grinding tools and nickel as basic materials and drastically raising their instead of expensive index.

materials including brass and cobalt, and solved sci-The core technology in tech problems arising in translating it into practice.

After succeeding in by a research group of selection of metal binder as making a highly-effective the Physics Faculty of metal binder plays the role metal binder with domestic Kim Il Sung University, are of helping raise the intensity raw materials, they used it to make a diamond grinding and cutting blade to process stone materials and tiles.

According to Choe Hyon Chol, head of the are used in processing hard researchers came to pay condensed state physics institute, the quality of expensive metals are used as the new diamond grinding tools main components of them. blade is guaranteed since there are many grinding They conducted research to it is hard and highly substitute locally-available resistant to abrasion with grindstone and their raw materials for those of the superior property of holding diamond particles.

And the blade is recognized as a high-tech product of great economic value since it costs low and is superior goal of reducing dependence with locally-abundant iron to imported ones in terms of performance and lifetime



Researchers discuss ways to prolong the lifetime of diamond grinding blades at the Physics Faculty of Kim II Sung University.

Factory and other units.

Chollima Tile Factory, the at Kim Il Sung University, than the imported," said "Using the diamond imported ones. And it never Tile Factory.

This research success is grinding blade developed breaks during work and its paying off greatly at the by lecturers and researchers lifespan is 1.2 times longer Pyongyang Building Stone we have found that it is more Pak Kyong Chol, workshop resistant to abrasion than manager of the Chollima

## Fatigue-relieving garment invented

The new fabric has a far infrared radiation coefficient of 0.96 and sends out 300 anions per cubic centimetre.

D ecently, a research R group of Pyongyang Han Tok Su University of Light Industry invented a fatigue-relieving garment using far infrared nano compound materials.

capillaries and accelerate as it is simple in operation to cling to the body.

and does not depend on

therapy raises the human function of relieving body's ability to control fatigue. physiological activity and The garments are to be its activity and is very worn during a rest after effective in treating diseases exercise or in bed. of the circulatory system, especially removing waste not only helps people

find the way to constantly quickly fatigue of athletes for health and recovery garment that can perform which sends out 300 anions relevant research.

materials which have of recovery from fatigue high far infrared radiation grew two times and over coefficients and show 10 times higher than before the function of sending respectively," said Choe out anions, they applied Yong II, researcher of the nanotechnology to all of April 25 Sports Club. promote them to stick to cloth and Players who have worn anagenesis and adjust processed the cloth into the such a garment say, "If I nerve, thus nano functional one. To make the cloth sleep well."

show well the function The method of producing

They established the technology of producing the garments with the amazing

Wearing such clothes manage their health but In the course of trying to also is effective in easing

"Case studi exercise, the stabilization After selecting different speed of pulse and that

wear this garment in bed, I

Infrared therapy is of of relieving fatigue, they fatigue-relieving cloth was Infrared rays extend great clinical significance designed relevant garments registered as a national invention.

## Liver-protecting medicine made from starfish

### By Ri Sang Il PT

heU.A.Pharmaceutical Factory has recently L developed the starfish liver protection capsule which is remarkably effective in improving liver function.

According to information, starfish contains life-active substances which are equivalent to trepang.

used as edible or medicine as it contains a kind of toxic substance.

technicians of the factory disorder, acute and chronic clearly removed the toxic hepatitis, fatty liver and substance in starfish by hepatic cirrhosis helped applying the traditional relieve such subjective manufacturing method which symptoms as feebleness, had been used by Korean fatigue, anorexia, digestive ancestors and advanced disorder, flatulence, pain processing technology and in liver and others in one or established a processing three months. technology which can extract They also say that all and separate useful ingredients liver function indices have with high collection rate. And returned to normalcy three they made the starfish liver months later after getting rid protection capsule which is of dark skin, red spots and good for the recovery of liver itch of skin. function.

The capsule acids including methionine fully been verified by yearsand glutamic acid, 27 sorts of long clinical introduction. essential microelements and The capsule draws public rare-earth elements, vitamins interest as it is helpful for the A and B groups, C, D, E prevention and treatment of and PP, as well as life-active various liver diseases.

ingredients including nucleic acid, taurine and choline

According to Ho Kwang Wol, such ingredients play the role of regenerating and reviving damaged hepatic cells while making close cooperative actions with each other inside the body. detoxifying liver poisoning by alcohol, medicine and heavy metal and eliminating But it has not widely been lipid from fatty liver tissue.

Case studies show that the introduction of the capsule into patients who suffer from Ho Kwang Wol and other poisonous liver functional

The treatment efficacy newly-developed of starfish liver protection harmoniously capsule registered as a contains 18 kinds of amino patented technical product has

medicines. Especially, far infrared

matter. ensure a far infrared who undergo great physical environment which is good exhaustion. from fatigue, the research that among the players group, including lecturer who wore such garments, Kim Si Ung, conceived an whose far infrared radiation idea of making a functional coefficient is 0.96 and this function and conducted per cubic centimetre, after

ISH FARMING 6

# fish farm built on rooftop



A pond teeming with fish on the roof of the Mirae-dong Weekly Nursery on Mirae Scientisits Street.

### By Kim Hak Chol PT

Mirae-dong in Phyongchon District, Pyongyang, built a fish farm of radiation heat from the on its rooftop.

metres in area, the roof as the fish farm," says Kim Hye used as quality fertilizer. a whole is decorated with Suk, head of the nursery. green colour, thanks to the perimeter and fieldponds where many fishes are and they ensure enough cultivated.

The artificial are teeming with catfish, supply hot water.

other fishes.

Mirae Scientists Street years ago, we came to think how to make effective use A little over 1 000 square repeatedly and finally built plots on the rooftop to be feed by using natural feed,

temperature for the growth

wading pool of the nursery animals from its livestock "In the course of greening is filtered and raised with Weekly Nursery on the roof of the building three a pump to be used for the kinds of by-products from operation of the fish farm. And the water from the fish farm is sent to the roof. So, we discussed it greenhouse and vegetable the proportion of grain

The nursery produces fries According to her, the by undertaking artificial fish farm breeds fish from spawning and incubation like greening of it. Notable May to September, early by itself to increase the rate they can raise cold- and hotin particular are artificial October at maximum, of their survival and their water fishes so as to do fish weigh

And it uses Hermetia in winter. ponds of fish without having to illucens as protein feed by raising the insects a lot using all the year round.

Ryongjong fish, carp and The waste water from the the excrement of domestic farming base and different the operation of the nursery as the source of their feed.

Besides, it also decreases assorted feed and feed additives.

The nursery built an underground fish farm where farming uninterruptedly even

As a result, it breeds fish

## Fish bred under water park

### By Kim Kum Myong PT fish breeding by means

is benefiting from it.

The underground fish carp, catfish, tilapia and sturgeon.

"Until some years ago, showers and pools of the water park. After technical innovations were made by the management station, water tanks there were no to the growth of fish. longer needed," said Kim Kwan II, deputy manager of the water park.

If fish was bred in the water tanks under the water park, there would be no underground fish farm and need to build a fish farm the dishes are popular with separately and it would ensure effective supply of water to be used for fish farming.

relevant unit.

It installed an oxygen to supply water for fish farm.

water filtering The Munsu Water apparatuses and to purify Park Management the air in the underground L Station built an fish farm with the help underground fish farm to of ventilators. It bred suit its characteristics and Hermetia illucens by itself to use it as protein feed for fish and used farm with six tanks for fry assorted feed made with and ten for full-grown fish grain feed from various breeds Ryongjong fish, supply service bases of the water park.

The deputy manager of the water park said it was a place storing that the underground fish hot water needed for the farm is really profitable, adding that the supply of geotherm-based hot water to the fish farm without water shortage gives help

At present, different restaurants in the water park offer service with Ryongjong fish, catfish and sturgeons bred at the diners

"Though it is not so long since the beginning of fish farming, employees The management station of the water park have worked out a plan to begun to benefit from breed fish in the water it. In the near future, the tanks remaining out of use management station will and obtained equipment direct more efforts to the necessary for fish farming production of fries and in collaboration with a the raising of Hermetia illucens conducted on a small scale to double the infuser at every water output of fish," said Ri tank, made it possible Yong Bok, chief of the

# **Restaurant makes effective use of empty space**

The Sosong Loach Soup House serves over 30 kinds of dishes with loach which they farm in the fish ponds.

### By Ri Jang Chol PT

House of the Sosong Group in Pyongyang serves double sheets inside. customers using distinctively- They say this enables them designed fish ponds.

our employees thought it was all the year round. impossible to do fish farming Around the ponds there The Sosong Loach Soup in a small area. But after are over 200 flower pots for House of the Sosong seeing other units benefiting purifying air, which supply District Restaurant Group from fish farming everywhere, enough oxygen for fish we built a fish farm which is farming. highly profitable as compared They pump up underground to the area in cooperation with water from the depth of 30 experts of different units," metres to constantly fill the said chief of the eatery Kang water tank in the outside. Un Ha

and raise carp, red carp and feeds made of different kinds goldfish as well.

they use the surrounding chrysalis and particularly use unoccupied

effectively as fish ponds. The spaces on both sides of The Sosong Loach Soup the building are roofed with plastic sheets and there are L District Restaurant five fish ponds covered with

to ensure necessary water "A few years ago, most of temperature for fish farming

They increase the fattening They mainly farm loach rate of fish with assorted of by-products from catering It is noteworthy that service and rice bran, shell, ground Azolla filiculoides to feed The survival rate of loach

grown in the spawning pond with broiled mushroom, egg and crumbs. is over 80 percent. dozens of kilograms of loach

every day. It serves over 30 kinds of dishes with the fish.

keeps a daily stock of dozens of kilograms of loach by making the most of its own fish farm.

are loach soup, fried loach broiled loach and Lentinus covered with flour, beaten

like fried loach covered with produced by itself and sends certificates at different loach crumbs which is prepared it to several catering service cooking contests.

Especially popular ones by frying seasoned loach facilities in Sosong District. The loach soup made at the Sosong Loach Soup House According to employee was registered as national The house normally keeps edodes and broiled loach Kang Chun Hyang, the intangible cultural heritage and green pepper. Women house monthly supplies its element of the DPRK No. and children particularly employees with the loach 79 and received many

AN YONG CHOL / THE PYONGYANG TIMES







EDUCATION

## Future of country depends on education

### By Pak Song Min PT

directed to it.

said that the development The DPRK government of education to which our puts education for future has been entrusted public attention is being parents of students and enthusiastic supporters to At the Fifth Plenary concentrate their energies Meeting of the Eighth on rapidly improving Central Committee of the the country's education

Secretary Kim Jong Un cooperation.

revolution and future large numbers of supporters support for education educational facilities and development of the state including Korean peasants, growing, projects have been school fixtures. L the training of talents is inconceivable apart from hinge on education and the workers of different undertaken to narrow the first as an important affair all-people efforts, adding viewpoint to and stand on factories across the country, gap in the education level deciding the future of the we should ensure that all the support for education Pyongyang citizens and between the central and country and nation and people become devoted are just the yardstick by which to evaluate the attitude to the revolution and patriotism.

Kim Il Sung University, which plays an important of their work and throw offer positive material Workers' Party of Korea to the world level and role in the revolution and themselves into resolving and moral assistance to held in June, General work together in close construction, was also problems arising in it.

built thanks to the patriotic With Province.

It has becomes a dominant social trait that everyone education. regards education as part

The prospects of the devotion and labour feats of investment in and social people in South Phyongan local areas and between cities and the countryside and to improve the quality of

Supporter organizations educational institutions. This

the national year alone, they provided many schools with modern

And lots of units voluntarily take charge of more educational institutions and give sincere assistance to them

The unstinting support for education from the people across the country serves as a powerful engine that accelerates the advance of the country



Schools are reconstructed and provided with many educational facilities and school fixtures.

### **Education** keeps in close contact with production

### By To Kyong Chol PT

university going full steam ahead across the research groups country. comprising researchers. postgraduates production at different universities and colleges.

The Commission grasps and technical cooperation. guides every detail, from the selection of units, planning businesses effectively.

People's

solves scientific and Electric Cable Factory 326.

introduced into not only of businesses.

industry but also agriculture. It is very popular at many  $\mathbf{X}$  Tith the building of farms across the country as it research-oriented proves highly effective while saving much labour.

Kim Chaek University of Technology also inducts its lecturers, excellent scientific research forces into research projects and students make positive to solve scientific, theoretical contributions to the integration and practical problems in of scientific research with the production and business activities of factories and enterprises with which it Education has maintained relations of

In addition, it holds field technical classes for officials, and execution, to ensure technicians and skilled workers universities can promote of those factories regularly technical cooperation with every week and pays heed to building up the database of "Ever since the Seventh their sci-tech diffusion rooms Session of the 14th Supreme to help them strengthen their Assembly, technical forces.

efforts have "It has become been made by the education course to visit the university sector and relevant units to first and discuss the solutions turn the overall educational with its research group when work into a course of making we face any problems in students acquire practical the operation of production knowledge," said Hwang processes and development of Chol Myong, department new technologies," said Kim director of the commission. Sung Hyok, senior engineer Kim Il Sung University of the Pyongyang General

technical problems arising Phyongsong University of in the normalization of Coal Mining Industry and production, improvement of many other universities and quality of products, domestic colleges also strive to train production of raw and other more talents with practical materials and development of ability by bringing about new products by encouraging the integration of education close cooperation with field with scientific research and technicians and workers. production while fostering Research findings made the expansion of production by the university are widely and technical development

### Supporter organizations give powerful assistance to education

By Ryom Un Gyong PT

ctober is the schoolsupporting month in the DPRK With this month as

an occasion, supporter organizations throughout the country are conducting vigorous activities to help educational institutions.

According to Hong Tae Yong, deputy department director of the Education Commission. ministries national agencies and industrial establishments sent educational facilities, educational equipment and materials and building materials to universities and colleges

The Agricultural Commission and ministries organizations in local areas pace. of Information Industry, provided universities and The Chonnaeri Cement Tongsong Technical Senior and Railways sent over a colleges in their provinces Factory preferentially Middle School in Songnim dozen kinds of educational with necessary educational provides excavator, crane City so that students can facilities and materials to equipment. Kim Chaek University of Every province also as well as manpower and practical talents through Technology, Sariwon Kye encourages support to spruce building materials for the extracurricular practice Ung Sang University of up teachers training colleges, construction of Wonsan and puts in great efforts to Agriculture, Pyongyang pedigree establishments for Ri Su Dok Teachers consolidate the material University of Transport and the training of teachers, into Training College, and the and technical foundations so on.

Guidance Bureau, which modern basis.



Officials of the Hwanghae Iron and Steel Complex visit Tongsong Technical Senior Middle School in Songnim City, North Hwanghae Province with many practice facilities.

model ones where education Ryanggang Provincial of technical senior middle The Kumgang Trading is put on a scientific, IT and Public Prosecutors Office schools in the city," said

puts forward educational Officials of the Chongjin facilities and a large director of the general support as an important Fishery Station for the number of notebooks to education department. affair, has prepared materials Supply of Feed for the Hyesan Teachers Training Thanks to the sincere needed for improving Central Zoo, which takes College. educational environment the lead in the support for Meanwhile, schools in organizations, many schools and conditions and sent them education, provided large the general education sector have newly been provided to Chongjin University of quantities of building have made successes in with educational facilities Mining and Metallurgical materials and fund to the work for improving and school fixtures and the Engineering, while the Rason Kim Jong Suk Teachers educational conditions and work to put education on a Exchange Company, South Training College on environment on the occasion scientific, IT and modern Hwanghae Provincial Posts several occasions so that of the month. and Telecommunications its reconstruction and "The Hwanghae Iron and ahead to increase the Management Bureau modernization project Steel Complex built a basic number of multifunctional and other supporter could progress at a fast metal practice room with classrooms.

and other neavy machines prepare themselves inte sent dozens of educational Kim Won Hui, deputy

many necessary facilities for

assistance of supporter footing has been pushed

7

PUBLIC HEALTH 8

# Leading field of ophthalmology



JON KWANG HUN / THE PYONGYANG TIMES Patients get treatment at the Ryugyong General Ophthalmic Hospital.



By Kwon Hyo Song PT

long-lasting serious diabetic to the patient. retinopathy. The hospital until then.

the hospital, however, held Ophthalmic

The medical workers of at the Ryugyong General unusual zeal for research. pioneering the operation in his sixties who stayed at ophthalmology.

Hospital," rounds of consultations and said the patient living in which is regarded as a Many other treatment ruptures and restored the serious case was intensified relevant research. neighbourhood unit No. 38 technique with a high departments, including the eyes of a patient who got admitted to the At last they drew up a rational of Kangan-dong No. 1 in degree of difficulties in glaucoma, cataract and burnt in them to their original Tretina department operation plan. Almost all Songyo District, Pyongyang. the field of ophthalmology traumatic plastic surgery state by means of an artificial of the Ryugyong General ophthalmological operations Medical workers of the requires highly-precise departments, restore sight Ophthalmic Hospital in April were comprehensively done hospital say that when optical devices and different to patients by dint of their without last year. The patient had lost by many times. At last, they patients say they've come to advanced the sight of both eyes due to succeeded in restoring sight the hospital after being told apparatus, that they could have their materials and high skills. "I had regarded the loss eye diseases cured there, The retina department the hospital used a method is regarded as a prestigious had never treated such a case of my eyesight as a fate, they take encouragement has so far restored eyesight of excimer operation to medical but I regained my eyesight from their words and feel an of over 1 800 patients by restore to health a patient institution in the field of

The vitreoretinal operation courageously. operation sincerity.

the hospital due to corneal corneal grafting operation performing operation high skills and with utmost ophthalmectomy.

Thanks Doctors and nurses of achievements, the hospital treatment

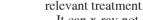
## **Ryugyong Dental** Key player in Hospital equipped with paediatrics modern facilities

### By Kim Kang Ju PT

The Ryugyong Dental but also all bone tissues of Hospital is equipped face and hands. hundred treatment facilities said that the hospital has not only women but also in over 20 kinds including made innovative progress men often visit the hospital universal dentist's chair, in treating patients with the to receive correction dental grinder and prosthetic help of this equipment. microscope.

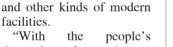
What draws attention among its equipment is of the hospital. the multi-purpose dental roentgen camera.

facility, dentists can ensure all sorts of dental get treatment without correctly see the tissue treatment. around teeth, the shape Odontorthosis takes a During his another visit inflammation state which of beauty art.



It can x-ray not only teeth facilities.

chair is the major equipment department.



demand for beauty L with well over a Dentist Sin Yong Nam increasing day after day, treatment," said Kim The universal dentist's Yu Sim, doctor of the

multi-functional The All departments of the treatment facilities of hospital are furnished with the pediatric dentistry With the help of this such equipment which can department help children feeling any pain.

of roots of teeth and large proportion in the field to the Ryugyong Dental Hospital in March 2014, are invisible with the The department corrects the respected Comrade naked eye. According to not only unbalanced teeth Kim Jong Un acquainted radiography, they will make but also jaw with the himself with its work as a treatment plan and give universal dentist's chair he made the rounds of it. People who met him unexpectedly there thanked him for having built such a wonderful hospital.

After looking round the hospital, he stressed the need for doctors and nurses of the hospital to spare no pains for the promotion of the people's health.

Many people frequent the hospital as it is provided with civilized environment and modern treatment facilities including treatment rooms and sickrooms and its medical workers make selfless, devoted efforts for patients.



A child gets X-rayed at the Okryu Children's Hospital.

JO RYONG / THE PYONGYANG TIMES

hospital's achievements data with made in medical treatment in treatment units and the T thas been nearly ten years the past.

Among the achievements, Technology Prize and Sci-Lof Okryu Children's there are the success in tech Innovation Prize were Hospital in October 2013. restoring many patients of awarded to the method of recognized as an excellent system based on standardized medical service for a total of heath circles and that in using over 679 000 children and a method of granulation students as it is responsible curettage to restore to health hospital were highly rated for comprehensive medical a patient with chronic otitis service activities for children media which could not be exhibitions. and students from new-born cured even with ten years of The hospital that plays a painstaking efforts.

Innumerable are the and atraumatic needle, for system.

the treatment and prevention of children's diseases and the improvement of their health.

The hospital was chosen as one of the top ten IT model units of the country in 2018 by developing an information system which ensure can exchanges clinical information

any medical February 16 Science and

Besides, the sci-tech successes achieved by the over ten times at national

pivotal role in the medical "The names of diseases The hospital improved the treatment of children has of patients were different, quality of medical service conducted over 14600 rounds peripheral nerve stimulator through a telemedicine

JO RYONG / THE PYONGYANG TIMES Dentists are engrossed in the treatment of patients at the Ryugyong Dental Hospital.

Over the period, the congenital heart diseases to heart operation based on right hospital has played a pivotal health by establishing a new chest wall incision approach role in the medical service method of heart operation and the hospital information for children. According to statistics, the technique with a high degree health information invented hospital has so far provided of difficulties by the world by the hospital.

ince the inauguration

By Ri Sung Ik PT

babies to 16-year-olds.

but they all left the hospital by making and introducing of online consultations with in good health," the head of many medical appliances and lectures for medical the preventive and curative and supplies, including a workers across the country department said.

ADVERTORIAL

# **Branded** mineral water, mineral water bath

#### By Sin Pyol PT

Kangso Mineral diabetes, nephrolithiasis, In the bathhouse a doctor doctor they can set the informs visitors of the treatment period and make method of having a mineral their next treatment plan. in the DPRK.

locals as it has strong autonomic neuropathy. to the symptoms of their mineral water bathhouse pharmacological action Kangso Mineral Water diseases. and is superior in taste and was listed as a national

a taste for the mineral certificates of registration water treatment and the bath can reduce blood water, say in unison that of the appellation of temperatures and treatment pressure, said Kim Yong they feel refreshed to see origin of the DPRK and time vary according to the Sun, who is charge of the only the cups of the mineral the World Intellectual measurements. water and "thanks to" the Property Organization, to After having a bath, who suffered from high makes them feel relieved they could cure chronic satisfied with only drinking, bathroom. digestive disorders.

sodium, magnesium, iron, Kangso Mineral Water. hall soak their feet only treatment, she added. silicic acid, chlorine, carbonic acid gas and other contiguous with the of treatment to have a foot for patients with digestive useful substances for human Kangso Mineral Water bath treatment. Regood for patients suffering its significant therapeutic water treatment, their District, Pyongyang, who

조선특산

arteriosclerosis, obesity, mineral water bath.

natural monument in and pulse are measured a few days. The people, who acquired 1982 and obtained the before having mineral

Many people come to the in the mineral water tank sulphuric acid ions, mineral water bathhouse according to the purposes is the best of all medicines health, the mineral water is Factory and experience After having mineral Sim living in Tongdaewon rom chronic gastritis, effect. And more people blood pressure and pulse was cured of her chronic and duodenal visit it again because of the are measured again to gastritis with mineral water ers, chronic enteritis, unforgettable experience of know treatment effect treatment here.

colitis and hepatitis, the jaunty and refreshing immediately. And at the

effective for the treatment water bath and observes the There are bedrooms It is favoured by of chronic heart failure and treatment period according and a dining room in the

Kangso Mineral Water be recognized as a genuine visitors receive full mineral blood pressure and internal which is sharp in taste and and clean natural drink. water treatment according diseases have been healed Now the local people, to the set temperatures by mineral water bath." of the pain in the stomach, who have long been and time at the hot water

As it contains calcium, soaking their bodies in the treatment at the treatment effective in medical

recommendation of the

for visitors who will have Their blood pressure mineral water treatment for

Only a mineral water bathhouse. "Many visitors

Drinking mineral water while having medical enjoy mineral water bath, Those who received foot treatment proves more

> "Kangso Mineral Water troubles," said Ri Jong

RYU KWANG HYOK / THE PYONGYANG TIMES The working people are under treatment while drinking mineral water and having a bath with mineral water at the bathhouse.

### Sat. November 5. Juche 111 (2022) THE PYONGYANG TIMES

COMMENT 10

# Historic turning point in development of DPRK-Cuba friendship

#### PROVIDED TO THE PYONGYANG TIMES

our years have passed since the respected Comrade Kim Jong Un, president of the State Affairs of the Democratic People's Republic of Korea, had a historic meeting and talks with of the Republic of Cuba, who visited the DPRK.

of the respected Comrade of the Council of Ministers of new era. the Republic of Cuba(at that November 4 to 6 2018, leading Kim Jong Un and Comrade the delegation of the Republic of Cuba.

personally went to the airport

and gave them the red carpet consolidating the militant countries. treatment during their visit.

overflowing with friendly feelings, leaders of the two countries shared with each other socialism. the successes and experiences gained in the works of their friendship and meticulous care entering a new historic stage Parties and states which strive of Comrade Kim Jong Un, to build socialism suited to each Comrade Miguel Mario Díaz- of their countries, and extended of the DPRK, and Comrade the manifold challenges and Canel Bermúdez, president full support and solidarity to Miguel Mario Díaz-Canel ordeals. each other's work. They also clarified steadfast stand and will the Republic of Cuba, the now pushing ahead with At the kind invitation of the Parties and governments two countries are closely the campaign for overall of the two countries to further supporting and collaborating development of socialism Kim Jong Un, Comrade expand and develop the strategic with each other, invariably under the leadership of the Miguel Mario Díaz-Canel and comradely relations of holding aloft the banner ever-victorious Bermúdez, president of the friendship and cooperation in of independence against Party of Korea. The Cuban Council of State and president line with the demands of the imperialism and the banner of people are making strenuous

time), visited the country from and talks between Comrade Miguel Mario Díaz-Canel actions in the international Bermúdez have become arena and active cooperation The Korean people rejoice Comrade Kim Jong Un a turning point of great in all fields of politics, the as their own at the good significance in continuing to economy and culture, the results made by the Cuban and warmly welcomed carry forward and develop DPRK-Cuba friendship has people in their endeavours Comrade Miguel Mario the fraternal and traditional been proven once again and to oppose imperialism and Díaz-Canel Bermúdez and relations of friendship and further consolidated as a true build socialism in the Western his entourage-the goodwill cooperation between the comradely and brother-in- Hemisphere. They will, in envoys of the Cuban people DPRK and Cuba generation arms relationship and become future, too, give full support who came to Pyongyang over after generation and beyond a global example in the and solidarity to the latter's

solidarity between the two At the meeting and talks Parties and two peoples in their struggle for the common cause under the uplifted banner of victoriously under the

Thanks to the special bond of president of the State Affairs Bermúdez, president of socialism even in the face of efforts to safeguard their These meaningful meeting the complicated international gains of revolution and build situation.

Through close and concerted the continents and oceans, century, and in firmly relationship between socialist righteous cause.

The revolutions in the two countries that have been pioneered by and advanced leadership of the leaders of elder generations are now of achieving the victory of socialism by overcoming

The Korean people are Workers' a prosperous socialist state braving obstacles created by all the reactionaries.

## Morality is basis of society

n his policy speech delivered at the Seventh Session of Lthe 14th Supreme People's Assembly of the Democratic People's Republic of Korea, the respected Comrade Kim Jong Un said that the might of single-hearted unity the invincible might of our style of socialism and the most powerful weapon of our state— faithful to his or her collective criticism by history. should be further consolidated in ideology, purpose and moral obligation is held in respect obligation.

about by the masses of the no matter how high his or her military power. people who are responsible for position is and no matter how A country that is morally the country to take great pride it and the masses can display greater might only when they are united of their own accord country and a nation. and in moral obligation, not A country and a nation countless people who support for others than oneself from a sense of duty.

**BYWORD** 

Everyone values time.

long ago.

General

being such phrases as "Time precious as gold.

Secretary interests.

Kim Ju Hvok Chairman of the Pyongyang Municipal Youth League Committee

Morality is of importance in assessing personality.

Whoever is always courteous in work and life and and comrades and values and affection anywhere.

The development of society, But whoever is morally much he or she knows.

The same is the case with a with rotten roots.

under any external coercion or that have established sound the country with practice, and dedicate oneself to the moral traits and are courteous not by words, those of noble happiness of others.

are sure to be praised by the personality who have been world people but those that are faithful to their occupations, morally base and corrupt can sparing no pains, for decades hardly avoid denunciation and

A country with a sound moral basis is a powerful one. substituted or supplemented which they have dedicated that of a country, is brought unsound cannot be respected even by huge economic or themselves all their life.

unsound is as good as a tree

Devotion

the people, regarding every advance of the country will Thanks to his such

without seeking one's own they become, the General have taken place with the

That's why there came into minute and every second as slow down as much and that devotion, the national

is money" and "Time is life" Devotion means dedicating the more the people's wealth been remarkably raised and

related to the value of time oneself self-sacrificingly increases and the happier lots of eye-opening events

Kim Jong Un devotes Conscious that if he has a around the clock, sometimes coming true over the past

himself to the country and rest even for a moment, the forgetting even mealtime. 10 years.

the more he devotes himself, power of the DPRK has

Secretary exerts himself people's dream and ideal

if it were for the Party and the revolution and for the country and the people and have their children work at the labour-Moral traits cannot be consuming workplaces to

And it is commonplace in in taking sincere care of war veterans, marry honoured Now the DPRK boasts disabled soldiers, care more

its last legs.

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**OPINION** 

American-style democracy on its last legs

### PROVIDED TO THE PYONGYANG TIMES

There exists a country on this globe that advertises their "democracy" as an "example" in the world and never loses the chance to beautify and "globalize" it. That country is none other than the United States.

No matter how they trumpet their "epitome of democracy", it is impossible to hide the true colours of American-style democracy fraught with hypocrisy and lies.

A few days ago, the AP carried the results of public opinion poll on the upcoming US midterm elections. According to it, many Americans feel pessimistic about their country's democracy and election methods and 52% of the American adult population said that democracy is not being properly promoted.

In the meantime, Japanese newspaper Mainichi Shimbun reported that about 70% of Americans think American-style democracy is at risk of collapse.

This should be seen as a well-deserved evaluation of the reactionary and anti-popular American-style democracy and of the unfair election system which lies at its very foundation.

No wonder even the American media deplored the US presidential elections, commenting that American-style democracy has shown to the whole world an example of what shouldn't be done.

As far as the US election system is concerned, it is a three-ring circus where a handful of fat cats pour in stupendous costs fighting against each other, to speak nothing of equal voting rights of the people. Like this, it is an extremely reactionary and anti-popular system where democracy is nowhere to be seen.

It goes without saying that the rich who won the elections backed by money cannot adopt laws or policies for the people

Today, the US death toll caused by the malignant infectious disease has reached an all-time record, while the majority of the US population is forced to live in fear of poverty and crimes owing to gun-related violence, racial discrimination, energy crisis, human trafficking, and the like. This is the reality of the US.

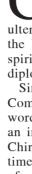
It is the truth of history that those who turn their back on public sentiment are bound to perish.

The US newspaper Workers' World previously emphasized that the "all-peopleequal society" of the US which the "goddess of liberty" commands, is now awaiting its miserable funeral and capitalism is well on its way to the grave due to its incurable chronic

As can be seen, the American-style democracy is a reactionary democracy where a handful of power-holders and fat cats oppress and exploit the majority of people who are indigent and deprived of all rights, and an aggressive democracy that suppresses and dominates various countries around the world as it pleases.

The American-style democracy-the hotbed of social inequality and class antagonism-is on





### WORLD

### **Briefly**

### **President: West's** domination over world will not be achieved

11

Russian President Vladimir Putin said that the West's establishment of domination over the world will not be achieved at the general meeting of the Valdai international seminar club on October 27

Saying that the West's establishment of domination over the world is dangerous and bloody, he noted that it is denying the sovereignty, identity and uniformity of other countries and peoples.

### Cuba

President stresses need to correct social problems

Cuban President Miguel Mario Diaz-Canel Bermudez at a Cabinet meeting on October 26 stressed the need to remedy social problems.

They could not neglect crimes, corruption, illegal acts and undisciplined practices, he said, adding that the Communist Party of Cuba and the government could not merely look on with folded arms but should correct such practices.

He called for fighting against crimes, corruption, illegal acts and undisciplined practices.

#### China Satellite launched

China launched satellite No 20C for test by using Long March-2D carrier rocket at the Jiuquan satellite launch centre on October 29.

The satellite will reportedly be used to monitor and measure the space environment.

**General meeting held** 

The 18th general meeting of the Organization of Asia-Pacific News Agencies (OANA) was held in Tehran, Iran, on October 24-25.

It was attended delegations and delegates of news agencies of OANA member nations and international organizations.

The meeting discussed the issues of continuing cooperation and experience sharing in news coverage and report to cope with such crisis as COVID-19, enhancing the reliability of news or articles and combatting false reports and overcoming all obstacles that have negative effects on cooperation between news agencies.

During the meeting, a photo exhibition took place on the theme of "Life free from infectious diseases".

#### COVID-19 **Global casualties**

According to a foreign media report, 636 209 670 persons contracted the novel coronavirus worldwide, 6 596 825 died of it and 13 896 771 were undergoing treatment as of 24:00 on November 2.

# Chinese media criticize US, West for distorting fighting spirit of Chinese diplomacy

### PROVIDED TO THE PYONGYANG TIMES

hinese newspaper Global the West distorting the fighting diplomacy.

of considerable misconception aggressive and destructive hue.

and misjudgment by the outside world Having

diplomacy "wolf warrior", the Times recently carried a public media of the US and the ulterior purpose of the US and for "Chinese threat" propaganda. diplomacy and changing its Since the 18th Congress of the concept, they are scheming to Chinese diplomacy. At the same international regulations and time, it has become a subject principles into a diplomatic tag of politics.

Washington, in particular, is in politicians of the US and the West its bid to accuse China on a charge that show the strongest response labelled Chinese that, in actuality, the US deserves. to the fighting spirit of Chinese Then why does Chinese diplomacy diplomacy put its emphasis on - commentary exposing the West used it as an annotative note fighting spirit? The reason is clear. It is because the forces that unease. By deliberately distorting try to tarnish Chinese diplomacy spirit maintained by Chinese the fighting spirit of Chinese by labelling it "wolf warrior" are indeed "evil wolves" themselves.

China is undoubtedly fighting Communist Party of China, the degrade the just acts of China against the words and deeds which word "fighting" has emerged as striving to defend the national undermine the interests of the an important term often used in dignity and interests, and state and dignity of the nation, and against hegemony and high-handed

> It is the mass media and certain up with all sorts of embellishment.

## Dangerous military provocation brings latent nuclear holocaust

#### By An Jong Chol

uneasiness and panic

the region of northern Europe by is reaching its "red line". mobilizing scores of fighters of strategic bombers.

year. In tandem with this, the EU holocaust. member states have decided to train

#### weapon systems

have recently staged a nuclear war turns to show their frenzied stands exercise targeting Russia. This has of military confrontation in rapid

We are still in a great surprise and other possible means. the latest model including "B-52" to find that the US and the West's to the military aid for Ukraine next to an unimaginably terrible nuclear not an empty word.

more than 15 000 Ukraine soldiers the press secretary of the Russian are now gradually dispatching at local military bases and provide President and vice-foreign minister offensive weapons with a range of Ukraine with modern anti-aircraft are now strongly warning that the dozens of kilometers to Ukraine.

nuclear war exercise by the US with And they are massing tens of escalated military aid to the US army deployed in Romania the world closer to a war and that Ukraine, the US and NATO this summer are awaiting their it can lead to a direct clash between nuclear powers.

been throwing the whole world, succession, making reckless defined the Ukrainian crisis as reaction as this. to say nothing of Europe, into remarks that they are ready to enter an extremely tense political and the territory of Ukraine and fight military confrontation with the From October 17 to 30, 14 against the Russian forces if it starts US and the West which gravely member states of NATO with the its raid on NATO. Given all these infringes upon its sovereignty US as the ringleader conducted developments, there is a strong and security, made clear its stand a nuclear bombing exercise feeling that the military threat of to face, to the end, the reckless a disastrous nuclear showdown codenamed "Steadfast Noon" in the US and the West against Russia military threats of hostile forces between Russia and the US will by mobilizing nuclear weapons

It has recently conducted a largemindset for global supremacy has scale field exercise by mobilizing Besides, the US got down to gone so far as to be unable to see the triad of its strategic nuclear discussing a bill on allocating an the danger of head-on nuclear clash forces. Through this, it has proved wake up from their anachronistic enormous fund of US\$ 50 billion with Russia which will, in turn, lead that its hardest tit-for-tat stance is

> Not content with defensive Russian official figures including weapons, the US and NATO

Moreover, high-ranking officers NATO and their reckless racket of thousands of combat-ready elite gainst a backdrop of of the 101st Airborne Division of military aid to Ukraine are driving troops in the vicinity of the Russian border so as to pose a serious threat to the security of Russia. Such being the situation, it is only natural Russia, having already that Russia is showing such a strong

This speaks that only those with

In conclusion, the commentary

diplomacy will never get wicked

with the mention of its fighting

spirit. On the contrary, it noted,

the American-style diplomacy of

"offensive realism" will betray its

own wicked look before the world,

making it impossible to be covered

that Chinese

emphasized

ulterior motives get the pangs of

If the US and its vassal forces cross the "red line" of Russia in blatant disregard of the security interests of the nuclear power which are vital to its very existence, turn from a hypothesis into a reality.

It is always too late to regret. If the US and the West still have a shred of reason, it would be a wise step for them, though belatedly, to paranoia of supremacy, look clearly at the reality and think twice.

> The author is member of the Korea-Russia Association for Promotion of Exchange and *Cooperation.*

For development of human civilization

### By Kim Jin Hyang PT

special agency for international U realizing international organizations. cooperation in the fields of

UN in December 1946.

of its activity to contribute to and peace. global peace and security by Thanks to the positive effort heritage and folk traditions of strengthening international of UNESCO, exchanges have the nation in the world cultural cooperation in the fields of briskly been conducted in such heritage list and inscribing its education, science, culture and fields as education, science, famous mountains like Mt information.

and regional

education, science and culture. joint activities with many taken active part in the The UNESCO Charter was organizations, institutions activities of the organization adopted in a meeting of the and bodies with the same while attaching importance to preparatory committee for purpose as its own in its role. founding UNESCO, which the world while working was held in London from independently in its field and November 1 to 16 1945, and has contributed to ensuring education, science, culture it has become a special agency global peace and security as and other fields onto a higher of the UN according to an it bolsters up cooperation stage as required by the new agreement concluded with the with special agencies of the century. UN in the fields of education, It puts it forward as the goal environment, development

Main objects of its work especially, global attention world biosphere reserves.

are national committees has been paid to attaching of UNESCO, the UN and importance to educational and **T**NESCO is a UN UN special agencies and cultural work in developing countries.

> The DPRK joined UNESCO UNESCO is conducting on October 18 1974. It has

The country has conducted strenuous activities to develop

It pays due attention to cooperation with UNESCO, registering excellent cultural culture and information and, Paektu and Mt Kumgang as

SPORTS/NATURE 12

## MARRIED WOMEN WIN **BASKETBALL MATCH WITH CAN-DO ATTITUDE**

#### By Yun Ki Song PT

he women's basketball team of the Phyongchon District general food store is comprised of married women.

It was nearly 10 years ago that they, beloved wives in families and kind servants in working places, started to learn basketball.

At that time, the district organized a basketball competition between units.

Although most of its employees were married women, they were neither afraid of nor gave up playing at the competition. Saying that though married they could play basketball and they had to train hard to win at any cost and bring honour to their unit, they encouraged themselves and did intensive basketball training in their leisure hours.

When their basketball team made teams in the competition, all the employees felt growing enthusiasm for basketball.

matches and cheering employees were of like mind that they could win.

Greeted with the strong encouragement and rousing cheers of the employees, the team increased successes and its members



Women's basketball team members discuss effective tactics at the Phyongchon District general food store.

basketball techniques.

Their determined and concerted effort bore fruit. Finally, their their debut and defeated other team cut a conspicuous figure in the district and their store won the honour of a model sports unit.

In the course of it, the store The team members who played employees have become united more closely and positively displayed admirable traits of helping and leading one another forward.

> As they work harder to perform their jobs, considerable achievements have been made in

redoubled efforts to improve their the supply of goods to residents.

"When I crack a long-distance shot in the match, I do not merely feel joy at scoring a point. Earning enthusiastic cheers and congratulatory applause is another joy. Each time, I have come to place greater trust in the collective and feel deeper attachment to my working place," said an employee, Paek Sol Gyong.

On holidays or rest days the store employees play various sports games including volleyball, table tennis and tug of war as well as basketball.

## Kang Hui An, painter in literary artist's style in 15th century

### By Han Kwi Hun PT

ang Hui An (1417-1464) was not a professional painter, but served as a government official. He was so good at painting and handwriting painter in the literary artist's style in Korea.

Born into a family of an aristocratic scholar in 1417, he passed the civil service examination in 1441 when he was 24 years old. He was involved in creating Hunminjongum (Korean Alphabet) as a government official in an academic research institution called *jiphyonjon*.

At that time, qualifications that should be possessed by government officials of aristocracy included poetry, writing and drawing, and Kang Hui An was a figure possessed of such qualities and skills.

An old record said that Kang acquired the gist in terms of sentence and poem. He wrote well in seal characters, ornamental seal characters, printed style and cursive writing and topped others in the painting exquisiteness, it added.

In fact, the characteristic of his painting was that he raised the close observation and power of expression of portrayal object

onto a new height.

Typical examples among his remaining works are "Deep in thought" and "Crossing the bridge" which show the leisure life of scholars.

He got fame when he went that he was known as a typical to a neighbouring country as an envoy. At that time, it is said that renowned personages of the country were surprised to see his picture and calligraphy and earnestly asked him to draw paintings.

> Song Hyon, a scholar in the 15th century, said in his book Yongjaechonghwa that Kang was gifted with high and unusual talent and went deep into a stage that ancient people had failed to reach. His landscape or figure paintings were all prominent and the picture of a beautiful woman he had drawn earlier was really lifelike, he added.

> In a word, his pictures were based on the method of boldly using single strokes of the brush to portray the objects in an intensive and three dimensional way, putting the main stress on the depiction of the hero and subordinating others to it.

His name goes down in history as he offered good experience for the development of Korean pictorial art in the early years of the feudal Joson dynasty.

Chongsokjong, scenic attraction on the east coast of Korea

By Choe Yong Nam PT

ituated on the seashore of Thongchon county town in Kangwon Province, Chongsokjong has long been famous as a coastal scenic spot for its cliffs and rocks of fantastic

shapes.

All the angled stone pillars standing along the seashore are of rare shapes. The stone pillars are different postures: in the standing are called ripchong, the sitting jwachong and the lying

wachong Wonderful are the shapes of the stone pillars standing in groups or separately in the

crystal-clear seawater. A legend has it that in ancient times competent stonemasons erected the stone pillars in bundles or

groups of a few with great efforts for a long time. There are also Sason Peak where four spirits, it is said, enjoyed themselves once upon a time, Pubu (couple) Rock, Kobuk (turtle) Rock and other rocks of different shapes.

The sunrise on Chongsokjong and its nocturnal view are particularly enchanting. Various kinds of birds fly to their nests on the cliffs, pines grow in thick verdure between rocks all the year round, unaffected by snow

and frost and the strong sea wind and the surging waves hit the stone pillars, sending up spectacular spray, thus adding to the landscape of Chongsokjong.

The Chongsokjong area serves as a tourist and holiday resort.

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