

KIM JONG UN

**ON GIVING PRECEDENCE
TO SCIENCE AND
TECHNOLOGY**

**Foreign Languages Publishing House
DPR Korea
Juche 109 (2020)**

WORKING PEOPLE OF THE WHOLE WORLD, UNITE!

KIM JONG UN

**ON GIVING PRECEDENCE
TO SCIENCE AND
TECHNOLOGY**

Foreign Languages Publishing House
DPR Korea
Juche 109 (2020)

CONTENTS

LET US BRILLIANTLY ACCOMPLISH THE
REVOLUTIONARY CAUSE OF JUCHE,
HOLDING KIM JONG IL IN HIGH ESTEEM
AS THE ETERNAL GENERAL SECRETARY
OF OUR PARTY (Excerpt)

Talk to Senior Officials of the Central
Committee of the Workers' Party of Korea
April 6, Juche 101 (2012).....1

ON BRINGING ABOUT A REVOLUTIONARY
TURN IN LAND ADMINISTRATION IN LINE
WITH THE DEMANDS FOR BUILDING A
THRIVING SOCIALIST COUNTRY (Excerpt)

Talk to Senior Officials of Party and State
Economic Organs and Working
People's Organizations
April 27, Juche 101 (2012).....3

OUR SOCIAL SCIENCES SHOULD RENDER AN
ACTIVE CONTRIBUTION TO ACCOMPLISHING
THE CAUSE OF MODELLING THE WHOLE
SOCIETY ON KIMILSUNGISM-KIMJONGILISM
(Excerpt)

Letter to Scientists and Officials of the Academy
of Social Sciences on the 60th Anniversary
of the Academy's Founding
December 1, Juche 101 (2012)5

LET US USHER IN A GREAT GOLDEN AGE
OF CONSTRUCTION BY THOROUGHLY
APPLYING THE PARTY’S JUCHE-ORIENTED
IDEA ON ARCHITECTURE (Excerpt)

Letter to Those Attending the Grand Short
Course of Officials in the Construction Sector
December 8, Juche 102 (2013) 15

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 103 (2014)..... 19

LET US BRING ABOUT INNOVATIONS
IN AGRICULTURAL PRODUCTION UNDER
THE UNFURLED BANNER OF THE
SOCIALIST RURAL THESES (Excerpt)

Letter to Those Attending the National
Conference of Sub-Workteam Leaders
in the Agricultural Sector
February 6, Juche 103 (2014)..... 20

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 104 (2015)..... 22

LET US EXPEDITE THE CONSTRUCTION
OF THE LIVESTOCK FARMING BASE IN
THE SEPHO AREA AND BRING ABOUT
A FRESH TURN IN DEVELOPING ANIMAL
HUSBANDRY (Excerpt)

Talk to Senior Officials of the Party
and State Economic Organs
January 28, Juche 104 (2015)..... 23

LET THE ENTIRE PARTY, THE WHOLE ARMY
AND ALL THE PEOPLE CONDUCT A VIGOROUS
FOREST RESTORATION CAMPAIGN TO COVER
THE MOUNTAINS OF THE COUNTRY WITH
GREEN WOODS (Excerpt)

Talk to Senior Officials of the Party,
the Army and State Economic Organs
February 26, Juche 104 (2015)..... 26

LET US USHER IN A NEW GOLDEN AGE
OF BUILDING A SPORTS POWER IN THE
REVOLUTIONARY SPIRIT OF PAKTU (Excerpt)

Letter to Those Attending the Seventh
National Conference of Sportspeople
March 25, Juche 104 (2015) 28

LET US BRING ABOUT A FUNDAMENTAL
TURN IN THE THREE-REVOLUTION RED FLAG
MOVEMENT IN LINE WITH THE DEMANDS
OF THE DEVELOPING REVOLUTION (Excerpt)

Letter to Those Attending the Fourth
Conference of Frontrunners in the
Three-Revolution Red Flag Movement
November 20, Juche 104 (2015) 31

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 105 (2016)..... 34

LET US USHER IN A GOLDEN AGE
OF THE KIMILSUNGIST-KIMJONGILIST
YOUTH MOVEMENT (Excerpt)

Speech at the Ninth Congress of the
Kim Il Sung Socialist Youth League
August 28, Juche 105 (2016)..... 35

ON THE BASIC TASKS FACING
KIM IL SUNG UNIVERSITY IN
THE NEW ERA OF THE JUCHE
REVOLUTION (Excerpt)

Letter to the Teaching Staff and Students
of Kim Il Sung University on the 70th
Anniversary of Its Founding
September 27, Juche 105 (2016)..... 37

ON THE DUTIES OF THE WORKING
CLASS OF KIM IL SUNG AND
KIM JONG IL FOR THE TIMES AND
THE TASKS FACING TRADE UNION
ORGANIZATIONS (Excerpt)

Letter to Those Attending the Seventh
Congress of the General Federation
of Trade Unions of Korea
October 25, Juche 105 (2016)..... 42

ON IMPROVING THE ROLE OF THE UAWK
IN ACCOMPLISHING THE JUCHE-ORIENTED
SOCIALIST CAUSE (Excerpt)

Letter to Those Attending the Eighth
Congress of the Union of Agricultural
Workers of Korea
December 6, Juche 105 (2016) 44

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 106 (2017)..... 47

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 108 (2019)..... 48

ON SOCIALIST CONSTRUCTION AND THE
INTERNAL AND EXTERNAL POLICIES OF
THE GOVERNMENT OF THE REPUBLIC
AT THE PRESENT STAGE (Excerpt)

Policy Speech at the First Session of the 14th
Supreme People's Assembly of the Democratic
People's Republic of Korea

April 12, Juche 108 (2019).....49

**LET US BRILLIANTLY ACCOMPLISH
THE REVOLUTIONARY CAUSE OF
JUCHE, HOLDING KIM JONG IL IN HIGH
ESTEEM AS THE ETERNAL GENERAL
SECRETARY OF OUR PARTY**
(Excerpt)

**Talk to Senior Officials of the Central Committee
of the Workers' Party of Korea**

April 6, Juche 101 (2012)

Amid the flames of the industrial revolution in the new century, we should build our country into one with a knowledge-based economy.

It is the world trend to put the economy on a knowledge basis, and we are faced with the epochal task of transforming our national economy into one that develops by dint of knowledge.

We should struggle with a high aim and ideal, true to the intention of General Kim Jong Il to keep our feet firmly planted on our land and look out over the rest of the world, and beat the world in all aspects. By vigorously waging a drive to achieve a cutting edge with the same pioneering spirit and creative attitude displayed by the developers of the Ryonha machine tools in producing the latest CNC machine tools, we should raise the overall standard of our technical

equipment to the world level and perfect our economic structure as required in the era of the knowledge economy.

We should create an atmosphere in which definite precedence is given to science and technology, they are brought closer to production, and all the problems that arise in economic construction are solved by relying on science and technology; by so doing, we should guarantee the economic development of the country by means of science and technology.

**ON BRINGING ABOUT A
REVOLUTIONARY TURN IN
LAND ADMINISTRATION IN LINE
WITH THE DEMANDS FOR BUILDING
A THRIVING SOCIALIST COUNTRY**
(Excerpt)

**Talk to Senior Officials of Party and State Economic
Organs and Working People's Organizations**

April 27, Juche 101 (2012)

Science and technology related to land administration should be rapidly developed.

Scientific research institutions in the sector of land administration and environmental conservation should conduct dynamic scientific research in line with the demands of building a thriving country, so as to solve fully, promptly and at a high standard the scientific and technological problems arising in land administration and environmental conservation. In particular, they should direct efforts to scientific research geared to putting land protection, afforestation and road and river improvement on a scientific and modern basis and preventing air and water pollution. The sector of land administration and environmental conservation should organize scientific and technological forums on a regular basis and publish more scientific and

technological books and periodicals, and thus give strong impetus to the development of science and technology in this sector.

We should conduct brisk scientific and technological exchanges with other countries and international organizations. In the sector of land administration and environmental conservation there are many things we can introduce from among the latest developments in the world and foreign countries' advanced technologies. As I said before, we should learn about the latest world trends and advanced technologies through the Internet and send delegations abroad to learn and collect materials. The Ministry of Land and Environment Protection and relevant organs should conduct brisk joint research and academic and information exchanges with scientific research institutions in other countries and participate in international conferences and seminars, so as to positively introduce the advanced science and technology.

We should firmly build up the ranks of scientists and technicians in the sector of land administration and environmental conservation, provide them with adequate conditions for scientific research and adopt positive measures to introduce scientific and technological achievements promptly into production and construction.

**OUR SOCIAL SCIENCES SHOULD
RENDER AN ACTIVE CONTRIBUTION
TO ACCOMPLISHING THE CAUSE OF
MODELLING THE WHOLE SOCIETY ON
KIMILSUNGISM-KIMJONGILISM**
(Excerpt)

**Letter to Scientists and Officials of the Academy
of Social Sciences on the 60th Anniversary
of the Academy's Founding**
December 1, Juche 101 (2012)

With the development of the times and with progress in the revolution, social sciences cover more diverse areas of study and new studying methods may be explored and applied, but there cannot be any change in the revolutionary character of our social sciences. Our social scientists should resolve all the problems arising in their study guided, once and for all, by Kimilsungism-Kimjongilism alone, and ensure that their study is oriented to carrying out the plans and intentions of the Party and the leaders and making a contribution to our revolutionary practice. In the whole course of their research work—explaining and proving the correctness and viability of our Party's ideas, lines and policies and resolving the problems arising in revolutionary practice—they should guard against the infiltration of bourgeois ideology and

other heterogeneous ideologies and alien elements.

In building social sciences we must hold fast to the Juche-oriented methodology, combine theory with revolutionary practice and firmly maintain the principle of remaining faithful to historical truth.

This is the absolutely correct road for the development of social sciences based on the Juche idea and a principled demand for ensuring success in the study of social sciences.

The social science sector should always approach all problems with human beings, the masses of the people, at the centre, as demanded by the Juche idea, and resolve them in line with the demands and interests of our people and the reality in our country. In the revolution and construction our Party always attaches importance to the demands and interests of our people and the reality in our country, and advocates our own way.

An essential requirement in applying the Juche-oriented methodology at present is to adopt a creative, innovative approach towards all aspects of thinking and practical activities.

Today our Party demands that all sectors reject stereotypes and create something new by adopting bold, innovative methods to meet the requirements of the new century. They should not follow the same pattern when the times and society are constantly developing. Our Party attaches importance to the performances by the Moranbong Band, which has adopted new forms and methods as a clever reflection of the spirit and trend of the times; its intention in doing this is to rid all sectors of the stereotypical way of thinking and outmoded patterns, as well as to encourage

them to learn from the band's innovative style of creation and to seek ways for radically improving their work.

Social scientists should reject the stereotypical and straightjacketed way of thinking that lags behind the times; instead they should find innovative solutions to all the problems in their study, as demanded by our rapidly-developing revolution and as appropriate for our country's specific situation.

They should combine their study with revolutionary practice so as to resolve the practical problems arising in the revolution and construction and to develop the theories of social sciences onto a new, higher level.

Any abstract theory that fails to respond to the requirements of revolutionary practice, and any theory or knowledge that has not been verified in practice, is irrelevant. Social scientists should go deep into reality, identifying the most pressing problems in revolutionary practice, making them the themes of their study and finding profound solutions to them. Once they have achieved something in their study, they should work hard to apply it to revolutionary practice.

As Comrade Kim Jong Il instructed, they should keep their feet firmly planted on their land and look out over the world; they should strive hard, with the ambitious aim of developing our social sciences into the most scientific and revolutionary, and the most advantageous, in the world in terms of their influence and practicability. Our Party's revolutionary ideas and theories hold the highest and most brilliant position in the history of human thought, and are fully demonstrating their advantages and vitality.

Accordingly, we should develop all branches of social sciences to ensure that they take the leading position in the academic world. In this regard it is important to provide profound, theoretical solutions to the problems arising in the study of social sciences.

Social sciences should not be restricted to the interpretation of social phenomena or historical facts, but should clarify their essence and the laws governing their development, thereby promoting the social movement and historical development. If theoretical depth is not ensured in the study of social sciences, it is impossible to give a correct definition of the essence of problems and the laws governing their development, and they will lose their scientific viability. Some writings by social scientists, though they deal with important policies, are quite similar to ordinary articles and are not popular with readers—this is because the scientists have failed to give an adequate scientific explanation in their study and ensure its theoretical depth. If they are to fulfil their mission, writings emanating from the social science sector should contain philosophical quality and new creative elements in the course of their scientific explanation of problems. No writing that is devoid of philosophical quality and new creative elements can be called scientific and theoretical.

Social scientists should not produce abstruse writings that are comprehensible only to specialists, on the grounds that they should ensure theoretical depth. In the course of their study they should learn actively from the great leaders' popular style of writing; they should write in plain language so that all readers can understand them. A fundamental

aspect of the great leaders' popular style is their writings, which are logically sound and contain a profound meaning, conveyed in words that are comprehensible to everybody.

Properly applying the principle of remaining faithful to historical truth is an important requirement in the study of social sciences.

The focus in the study of social sciences is ideas, theories, historical facts, relics and remains that emerged in certain historical circumstances and have an impact on people's shaping their destiny and promoting social progress. When the principle of remaining faithful to historical truth is applied properly in the study of social sciences, it becomes possible to provide a correct solution to, and make a fair appraisal of, all the problems raised in former times or that have arisen in the present reality, and ensure that they are of scientific value not only today but in the distant future as well.

Social scientists should not analyze or evaluate anything in a subjective manner, nor should they exaggerate or distort the facts in disregard of the historical conditions and circumstances. They should not produce figurative writings but identify appropriate issues and use concise expressions on the basis of historical facts and data.

...

First of all, it should explain and prove in depth the truthfulness, originality, veracity and invincible vitality of Kimilsungism-Kimjongilism, and widely propagate it at home and abroad.

It should conduct a closer study of the Juche idea and the people-centred revolutionary theories and leadership

methods elucidated by it, and publish many writings that explain and propagate Kimilsungism-Kimjongilism. These writings should offer a theoretical, reasonable explanation and demonstration of the greatness and vitality of our Party's Songun idea and Songun politics within the system of Kimilsungism-Kimjongilism.

The Academy of Social Sciences should also work effectively to scientifically systematize and formulate theories relating to the great successes and precious experience achieved by our Party and people in the revolutionary struggle and construction work, so that they can be handed down to posterity.

Throughout the long period in which they led the revolution and construction under the uplifted banner of Juche, the great leaders followed the revolutionary path of independence, the original path of Songun and the untrodden path of socialism. In the course of this, they performed imperishable exploits and gained valuable experience that will go down for ever in history. It is an important duty for contemporary social scientists to systematize the exploits and experience achieved by the great persons of Mt Paektu and hand them down to the coming generations. The Academy of Social Sciences should fulfil its responsibilities in ensuring that the history of the great leaders continues for ever on this land. It should do so by scientifically and theoretically systematizing, explaining and propagating the immortal revolutionary careers of the peerlessly great persons of Mt Paektu and their exploits, which constitute the everlasting wealth of our Party and revolution and the eternal cornerstone for building a powerful country.

It should scientifically and theoretically generalize the successes and experience gained by our Party, army and people in dynamically advancing the revolution and construction in the face of every manner of challenge from the imperialists and reactionaries, as well as the spirit of the times that is fully displayed by our service personnel, people and officials, and their fighting experience. By doing so, it can ensure that they become priceless assets in making the country more prosperous.

An important task facing the Academy of Social Sciences is to further develop all branches of social sciences and provide solutions to the problems that arise in building a powerful socialist country, so that they can prove effective in practice.

In the realms of philosophy and socio-political science they should conduct political and ideological work in a methodical manner as demanded by the reality; in this way they can give proper answers to the problem of bringing the people's mental strength and creativity into full play and to other problems that are raised in defending and developing the people-centred socialism of our style and fully consolidating the politico-ideological position of our revolution.

In the realm of economics they should find bold solutions to the theoretical and practical problems arising in building an economic giant, such as perfecting the method of socialist economic management in our own way as demanded by the era of the knowledge-based economy, securing the country's intellectual resources to the maximum and making the best use of them. By doing so, they can make sure that economic

theory contributes to developing the national economy and improving the people's standard of living.

In the legal realm they should add the finishing touches to the theories on state building and legal theories in line with the requirements for building a powerful country, and ensure that economic and other laws are explained effectively. By doing so, they can render a service to establishing strict legal order and a law-abiding climate across the country.

In the realms of history, folklore and archaeology they should make proactive efforts to unearth and verify more of our nation's outstanding cultural heritage, and inherit and develop it; they should focus on scientific study aimed at responding academically to the attempts to distort our country's history.

In the realm of linguistics they should properly resolve the problems that arise in exalting the brilliance of our language, both spoken and written, and in developing a refined and cultured way of speaking throughout society.

In the realm of the science of art and literature they should conduct a closer study of our Party's Juche-oriented idea and theory on art and literature with the aim of promoting their innovative, steady development.

In the realm of the national classics they should work hard with the ambitious goal of transcribing and editing the major national classics as soon as possible in order to make them priceless possessions of our people and treasures of the country.

...

Great practical ability is a scientist's most precious asset. Social scientists should raise a fierce wind of

challenging one another in terms of their practical ability, so as to steadily enhance their politico-ideological level and scientific and theoretical qualifications. They should study Party documents fully and systematically so as to arm themselves firmly with our Party's ideas, theories, lines and policies; they should be able to approach social phenomena in the light of its policies and resolve problems true to its intentions.

They should establish the revolutionary habit of studying to master their specialist fields, gain a rich knowledge of various associated and other fields, and decisively improve their command of foreign languages.

All our social scientists should be true revolutionary intellectuals who support the Party with scientific conviction and conscience, able scientists and pre-eminent talents who can carry out all their research projects with credit.

Information work for social sciences needs to be improved radically.

In the present era of the knowledge-based economy, scientific information work is a key prerequisite for the sustained and efficient development of social sciences. Given the exponential increase in knowledge and the extensive use of computers and other IT means in scientific research, it is impossible to achieve success in the study of social sciences if scientific information work is not improved.

The Academy of Social Sciences should steadily improve such aspects of information work as the collection, analysis, storage and diffusion of information concerning social sciences, in line with world trends. In this way it can promptly provide the information and data that are essential

for our revolutionary practice and ensure that they are used actively in scientific research. It should build up the technical foundations for putting scientific research on an IT footing, including e-libraries, and introduce electronic means and multimedia in the compilation of information on social sciences. In this way it can ensure that our social sciences develop continuously on the basis of a vast wealth of knowledge, and it can make a contribution to satisfying our people's intellectual and cultural needs.

**LET US USHER IN A GREAT
GOLDEN AGE OF CONSTRUCTION
BY THOROUGHLY APPLYING THE
PARTY'S JUCHE-ORIENTED IDEA ON
ARCHITECTURE**
(Excerpt)

**Letter to Those Attending the Grand Short Course
of Officials in the Construction Sector**

December 8, Juche 102 (2013)

The level of scientification in architectural design should be raised radically, in line with the demands of the new century.

Scientific methods should be introduced into design and its means modernized. Architects cannot present satisfactory designs for world-class structures based solely on their sense of responsibility and duty. The days are gone when designs were drawn on paper. The most pressing issue in putting methods of architectural design on a scientific basis is to develop and use the advanced CAD applications and system of a Korean style. National institutions for architectural design and similar units in the provinces should equip themselves fully with modern devices such as the latest computers and multidimensional design programs so as to ensure scientific accuracy and promptness in their work.

Special attention should be paid to ensuring the scientific accuracy of calculation of cost-effectiveness in design. A misplaced dot or line on a design can result in the country's materials, funds and manpower being wasted in large amounts. From the standpoint that they are answerable to the country and people for the structures they design, architects should map out plans for them carefully in the light of economic profitability and draw designs of each structure only after repeated deliberation.

The architectural design sector should develop all its branches rapidly with the great ambition of beating the world. In recent years many monumental structures have been built, and in the course of this our architects have widened their horizons and improved the level of their skills; however, they still lag behind in many aspects in view of the requirements of the Party and people and the world trend of architectural development. For the present, it is important to develop designs for interior decoration, furniture and landscape gardening. Proactive efforts should be made to create green and intelligent architecture in conformity with the aspirations of mankind by adopting the latest world trends and excellent styles of other countries in architectural design.

...

Construction science and technology should be developed onto a higher stage.

Science and technology are an engine which drives constant advances in construction, and the shortcut to the great golden age of construction is to rapidly develop science and technology in this sector.

The scientists and technicians in the construction sector should have the national pride and scientific faith that they will beat the world and should make the best use of the knowledge and talents they have acquired under the care of the Party, so as to provide a scientific and technological guarantee for and push ahead with the grand construction campaign for the country's prosperity and the people's well-being. They should further develop architectural design and building work on the basis of intensive research into structural diagrams, scientific methods of calculation and advanced methods of building work which are appropriate to the actual conditions of our country and may lead the world. They should strive to ensure the domestic production of building materials, and increase their variety and improve their quality so that they can compete with world-class ones. They should also make proactive efforts to develop and introduce modern and more efficient equipment, machinery and tools.

Emphasis should be put on training scientific and technical personnel in the construction sector. Today, when the heyday of construction is being led into a great golden age for the new century of the Juche era, talented designers and architects are in growing demand. Pyongyang University of Architecture is the base for training talented personnel in Juche-oriented architecture and an outpost in building a civilized socialist country. The university and other educational institutions in the construction sector should put education on an informatized, modern and advanced basis as demanded by the era of the knowledge economy, combine theory with practice, and teaching with productive labour,

and guarantee the best conditions and environment for teaching so as to increase the number of able designers and architects who are fully equipped with the Juche-oriented idea on architecture. In order to produce able personnel who are talented in construction science and technology and can render a contribution to building a thriving nation, it is important to select promising people and send them abroad to study and for internships and effectively organize refresher courses for in-service officials.

A dissemination centre for construction science and technology should be built and widely used. A wide range of worldwide architectural data should be entered into the central database to enable the relevant organs to gain access to them through a computer network.

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 103 (2014)

Science and technology are the engine for building a thriving country, and the happiness of the people and the future of the country depend on their development.

The scientific research sector should open up a shortcut to building a knowledge-based economy by solving the long-term problems in developing the country's economy and improving the people's standard of living, along with the scientific and technological problems arising in the actual situation, and by going beyond the cutting edge. All scientists and technicians should achieve outstanding results by skilfully riding the excellent "steed" provided to them by the Party and giving the fullest possible scope to their talents and enthusiasm. By doing so, they can become true patriots who contribute to building a thriving nation. A climate of acknowledging the importance of science and technology should prevail throughout society, and all officials and working people should diligently learn modern science and technology, upholding the slogan of making all the people well versed in science and technology.

**LET US BRING ABOUT INNOVATIONS
IN AGRICULTURAL PRODUCTION
UNDER THE UNFURLED BANNER
OF THE SOCIALIST RURAL THESES**
(Excerpt)

**Letter to Those Attending the National
Conference of Sub-Workteam Leaders
in the Agricultural Sector**

February 6, Juche 103 (2014)

We need to develop agricultural science and technology.

The agricultural science research sector should concentrate its efforts on solving the scientific and technological problems arising in carrying out the Party's agricultural policies, including the problems of seeds, farming techniques and the development of new farming machinery. Scientists and technicians in the agricultural sector, with the patriotic spirit of bringing about a bumper crop through substantial scientific and technological achievements, should adopt the urgent problems arising in agricultural production as their core themes and conduct their research purposefully and persistently.

It is important to act promptly in applying the achievements made in agricultural science and technology.

The agricultural sector should remove the tendency to depend on old experience and make light of science and technology, and positively introduce scientific and technological achievements into agricultural production.

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 104 (2015)

This year we should give definite precedence to science and technology and effect an upswing in building a socialist economic giant and civilized nation.

It is the determination and will of our Party rapidly to develop all sectors and build a people's paradise by dint of science and technology. The science front should march ahead in the vanguard of building a thriving socialist country, thereby foiling the enemy's pernicious moves for sanctions and encouraging all economic sectors to make rapid headway on the strength of the noble spirit of independence and of science and technology. The scientific research sector should wage a brisk drive for going beyond the cutting edge in order to produce many valuable breakthroughs conducive to developing the economy, increasing our defence capability and improving the people's living standards. Regarding science and technology as their lifeblood, all sectors and all units should step up their modernization and the introduction of information technology of our own style, raise the scientific and technological level of officials and working people and vigorously carry out all undertakings by relying on science and technology.

**LET US EXPEDITE THE CONSTRUCTION
OF THE LIVESTOCK FARMING
BASE IN THE SEPHO AREA AND
BRING ABOUT A FRESH TURN IN
DEVELOPING ANIMAL HUSBANDRY**
(Excerpt)

**Talk to Senior Officials of the Party and State
Economic Organs**

January 28, Juche 104 (2015)

Breeds are to livestock farming what seeds are to crop cultivation. It is only by raising superior breeds of domestic animals that we can produce large quantities of meat and eggs with relatively little feed. If livestock farming is to be mass-based, the right breeds need to be chosen.

Superior animal breeds can be obtained through proper breeding. Efforts should be focused on developing breeds that grow quickly on relatively small amounts of feed, reproduce rapidly, and are highly resistant to disease. It is particularly important to develop breeds that consume small amounts of cereals and become productive in a short span of time. We should develop superior animal breeds in large numbers through a Juche-oriented approach and by proactively applying the latest scientific and technical achievements, especially those in cell and genetic engineering. Breeding

programmes should not be the preserve of the central research institute; they should also be conducted by local livestock farming bases and individuals so as to develop animal breeds that are suited to their specific conditions.

Brisk scientific and technical exchanges should be conducted with other countries in order to introduce superior breeds of domestic animals and, once proper evaluation has been carried out, raise them.

...

The production of animal feed should be industrialized, based on advanced science and technology. Assorted feed factories should be modernized and adequately supplied with raw materials so that they can produce large quantities of good compound feed containing various nutritive elements. We should also take steps to manufacture feed-processing machines and send them to stockbreeding units.

Animals should be raised in a scientific and rational way.

Livestock farming is a science. Just as a scientific approach guarantees the success of crop cultivation, so livestock farming should be based on science. Only then can livestock production be increased and become cost-effective.

Animals should be raised in conformity with their physiological features. The stockbreeding sector should set proper diets for the animals according to the purpose for which they are being raised and the stage of their growth, provide adequate conditions for them to grow, and raise them in line with their natural behaviour. It should also accurately identify the times when they are gestating and when they are to be slaughtered.

Animals should also be raised in conformity with the local geographical features. Just as the principle of the right crop for the right soil should be adhered to in crop cultivation, so the right breed of animal should be raised in the right area. Livestock farming should be based on detailed consideration of the natural and geological features and various conditions in the given area.

Livestock research institutes should play a greater role in introducing scientific raising methods. They should intensify the research into putting all the processes of livestock production on a scientific basis and establishing a rational approach to raising livestock. They should direct particular efforts to the research into increasing animals' weight with no, or less, grain feed and improving the methods of raising animals in the rainy and winter seasons. In addition, we should build up research bases, provide good working conditions for scientists and technicians, and establish a well-regulated scientific and technological guidance system.

If animals are to be raised in a scientific way, the officials and working people in the stockbreeding sector need specialist scientific knowledge and technical skills. The central scientific research organ and stockbreeding units should be linked via a computer network so that the officials and working people can keep up-to-date with world trends in stockbreeding and introduce scientific raising methods. We should also arrange frequent exchanges of experience, demonstration lectures and the like among stockbreeding units so as to make the latest raising methods and good experience widely known.

**LET THE ENTIRE PARTY, THE
WHOLE ARMY AND ALL THE PEOPLE
CONDUCT A VIGOROUS FOREST
RESTORATION CAMPAIGN TO COVER
THE MOUNTAINS OF THE COUNTRY
WITH GREEN WOODS**

(Excerpt)

**Talk to Senior Officials of the Party,
the Army and State Economic Organs**

February 26, Juche 104 (2015)

We should direct close attention to developing forest science and technology.

We can successfully promote forest creation and conservation when we rely on science and technology.

Forest science institutes should study and solve the scientific and technological problems arising in tree breeding and in forest creation and conservation. They should focus on breeding and widely proliferating good tree species that are of economic value and suitable to the climatic and soil conditions in our country. Along with this, they should conduct scientific research for perfecting the methods of planting and tending trees as suited to the geographical features and actual conditions in our country. They should develop methods for planting trees all year

round. They should also solve the problems arising in creating forests on a planned basis and conserving and maintaining them.

We should take measures to introduce and widely disseminate the global achievements of advanced science and technology related to forest creation and conservation. As there are few good tree species in our country, we should bring in such trees from abroad and widely proliferate them after acclimatizing them. We should grow large numbers of such trees as *P. strobes*, which the General spoke highly of, and spread them across the country.

We should work effectively in disseminating forest science and technology among officials and the working people. As all the people are enlisted in forest creation and conservation, they should understand the methods of planting and tending various species of trees. Centres for disseminating science and technology have been established in various parts of the country; based on these centres, a brisk drive for disseminating forest science and technology should be conducted to keep people abreast of world trends in the development of forest science and technology.

In order to develop forest science and technology, we should build up the Academy of Forest Science. Some officials are now neglecting the work of building up this academy, claiming that the effort to develop forest science and technology takes too long to pay off. They should not do so. We should develop the Academy of Forest Science into a world-class academy. And we should also improve the forest science institutes in the provinces.

**LET US USHER IN A NEW GOLDEN
AGE OF BUILDING A SPORTS
POWER IN THE REVOLUTIONARY
SPIRIT OF PAKTU**
(Excerpt)

**Letter to Those Attending the Seventh National
Conference of Sportspeople**
March 25, Juche 104 (2015)

Sports science should be improved.

The key to victory in building a sports power is to put sports on a scientific basis. This is a powerful impetus to the development of sports. The present reality, in which sporting techniques are developing at a fast speed worldwide, shows that the one that leads the competition in sports science and techniques becomes the victor, and the one that lags behind, the loser. When the soaring spiritual strength of our reliable sportspeople, who are eager to demonstrate the dignity and honour of their country to the whole world, is supported by advanced sports science and techniques, great progress will be made in the development of the country's sports.

All the officials, athletes and coaches in the sports sector need to study sports scientific knowledge and techniques, overcome the tendency to cling to outdated experience, and improve and develop all the realms of the work of the sports

sector, including training, competing, education and rearing reserves, on the basis of modern sports science.

The sports science sector should develop the techniques of each event in our own way from the Juche-oriented standpoint. In particular, it should direct primary efforts to the research into solving the scientific and technical problems arising in the development of those events to which the Party gives priority. Along with this, it should intensify research into physiology, biochemistry and other basic sciences, put the work of conditioning, psychological regulation and nutrition supply for players on a scientific basis, and develop different nutritious foods for improving their physical abilities. It should channel efforts into inventing state-of-the-art sports equipment and studying how to produce modern equipment, including clothing for each event, using domestic materials.

Brisk information work related to sports science and techniques should be conducted so that athletes and coaches can be well-informed of the world trends in the technical development of each event and of the teams they may play against in international competitions and then cope with the trends and foreign competition.

Nationwide attention should be paid to the effort for providing full conditions for developing sports science, including data, up-to-date equipment, measuring instruments and reagents.

The Academy of Sports Science has a significant role to play in putting sports on a scientific basis. It should build up its ranks of scientists and researchers, work out sports science development plans in a far-sighted and realistic way

and in line with the actual conditions in our country and the trends in the development of modern sports science, and launch a vigorous campaign to go beyond the cutting edge in its work.

Members of the February 17 Scientists and Technicians Shock Brigade, who have been assigned to the Ministry of Physical Culture and Sports, should develop and introduce computer-aided guided training programs, sports equipment and fatigue-relieving and nutritious foods so as to provide scientific and technical guarantees for achieving success in sports competitions.

**LET US BRING ABOUT A FUNDAMENTAL
TURN IN THE THREE-REVOLUTION
RED FLAG MOVEMENT IN LINE
WITH THE DEMANDS OF THE
DEVELOPING REVOLUTION**
(Excerpt)

**Letter to Those Attending the Fourth Conference
of Frontrunners in the Three-Revolution
Red Flag Movement**

November 20, Juche 104 (2015)

All sectors and all units should regard science and technology as their lifeblood and make proactive efforts to put their production lines and enterprise management on a modern, IT footing in conformity with the actual conditions in our country—this is an important task to be tackled in carrying out the technological revolution at present.

We should lay the foundations of a knowledge-based economy driven by modern science and technology and buttressed by hi-tech industries, and make the national economy Juche-oriented, modern, scientific and IT-based at a high standard.

Party organizations at industrial establishments should ensure that they work out proper strategies for their

business operation and enterprise management on the basis of scientific calculation, and that modern and IT means are actively introduced in production lines and enterprise management. It is important in modernizing industrial establishments not to adopt technology developed by other countries or install equipment imported from them; modernization should be realized by relying on our own forces, technology and equipment. They should build up their forces for themselves that are capable of developing science and technology, raise the proportion of domestic equipment, raw and other materials they use by promoting creative cooperation with the scientists and researchers at scientific and educational institutions, consolidate the existing foundations of production, and steadily upgrade their equipment and production lines.

Party organizations in the agricultural sector should accelerate the pace of the technological revolution so as to ensure the full implementation of the Party's policy on bringing about a radical improvement in agriculture, raise the fierce flames of scientific farming and animal husbandry and realize the comprehensive mechanization of the rural economy.

The vitality of the technological revolution should be manifested in the successful implementation of the national economic plan drawn up by the state and the major revolutionary tasks entrusted to each unit by it. By giving full play to the revolutionary spirit of self-reliance and fortitude and relying on the might of modern science and technology, all units should make regular leaps forward and

innovations in production and construction and carry out the revolutionary tasks entrusted to them by the Party, thereby rendering an active contribution to building a prosperous country and improving the people's standard of living.

New Year Address (Excerpt)

January 1, Juche 105 (2016)

Our Party is steadfast in its determination and will to solidify the foundations of a thriving country by means of science and technology and, with them as the engine, achieve national prosperity. The scientific research sector should give priority to resolving the scientific and technological problems that arise in consolidating the might of our Juche-based industry, our independent socialist economy, and improving the people's standard of living, and strive to push back the frontiers of science and technology. Factories, enterprises and cooperative farms should build sci-tech learning spaces in a splendid fashion and operate them on a regular basis, so as to ensure that all the working people study the latest science and technology. We also need to establish a social climate of resolving any problems arising in the reality on the strength of science and technology.

LET US USHER IN A GOLDEN AGE OF THE KIMILSUNGIST-KIMJONGILIST YOUTH MOVEMENT

(Excerpt)

**Speech at the Ninth Congress of the Kim Il Sung
Socialist Youth League**

August 28, Juche 105 (2016)

Young people should become the vanguard and pioneers in building a sci-tech power.

In the present era of science and technology the competition for national strength is precisely that for science and technology, and the future of our prosperous country depends on how hard our young people, who are sensitive to the new and overflowing with creative wisdom and verve, strive. They should, by standing in the vanguard of the competitions of the mind and of technologies, build a sci-tech power and glorify the days of their youth with valuable creations and feats, so as to bring forward the future of their prosperous country.

Young scientists and technicians, keeping their feet firmly planted on this land and looking out over the world, should devote their creative wisdom and enthusiasm to the campaign to surpass the cutting edge, with a view to raising our country to the status of a sci-tech power as soon as

possible. Young people should take the lead in making the entire population well-versed in science and technology; by becoming masters of invention and technical innovation, they can render a positive contribution to modernizing production lines and ensuring the domestic production of raw materials, fuel and equipment. Students should study hard and accumulate knowledge, always with books in their hands, and thus prepare themselves to contribute to promoting our nation's prosperity by developing cutting-edge science and technology.

**ON THE BASIC TASKS FACING
KIM IL SUNG UNIVERSITY IN THE NEW
ERA OF THE JUCHE REVOLUTION**
(Excerpt)

**Letter to the Teaching Staff and Students
of Kim Il Sung University on the 70th
Anniversary of Its Founding**
September 27, Juche 105 (2016)

Kim Il Sung University should set an example for all the other universities in the country in introducing innovative teaching methods.

It should train its students into positive learners and researchers by developing and perfecting a heuristic teaching method of our style in line with the requirements of the times, and conduct education in close combination with scientific research and practical activities. It should create processes, means, methods and forms of teaching to suit the reality of our country and the characteristics of the relevant subjects, and actively apply them. It is important to proactively enlist the students in regular courses as well as postgraduate courses in scientific research, increase the proportion of experiments, internships and skills training in the direction of improving their applicability, and set up a scientific method of evaluating the practical abilities of

students with the focus on their application capability.

It should organize teaching units in a logical way, and ensure that students receive lectures from leading teachers at the university and from across the country through various forms and methods of education. It should fix reasonable teaching hours for the teachers, based on the principle that highly-qualified, authoritative teachers and researchers give the main lectures on their respective subjects.

The education system, teaching management and educational administration should be improved.

The university should establish a well-regulated continuous education system, ranging from regular to postgraduate courses, and ensure that the genius education system established by General Kim Jong Il proves its worth in practice.

In conformity with its character as a university, it should develop new colleges, faculties and departments for training personnel who are talented in cutting-edge and other major fields such as aerospace technology and the chemical industry. It should also develop new branches of cross-disciplinary sciences in line with the trend of the comprehensive development of science and the demands of the country's socio-economic development, and nurture outstanding talents for these fields.

The university should develop its faculties and departments with a certain level of foundations and with particular attainments so that they become capable of securing world supremacy, and it should launch a dynamic campaign in which one overtakes and learns from others

so as to increase the number of these faculties and departments.

A rational system and order for educational administration should be established on the principle of ensuring the smooth progress of teaching and scientific research by teachers and researchers, and of the edification of students.

Departments should be strengthened into academic centres for relevant sectors, into authoritative research units, in which teaching is closely combined with scientific research.

Kim Il Sung University should build up its distance education college into a nationwide online educational base for the social sciences and increase the number of its courses and students so as to develop it into a large-scale college. In this way the university can make a tangible contribution to implementing our Party's policy of making all the people well-versed in science and technology.

The university should take decisive steps to strengthen the forces of science and education that are capable of building it up into a most prestigious university.

The main forces, who are directly responsible for doing so, are its forces of science and education centred on its teachers and researchers.

The university should train on a long-term basis reserve scientists and educationists for every discipline so as to strengthen these forces in terms of both quality and quantity, and it should ensure that their legacy is carried forward. It should direct great efforts to the work of the institutes of social and natural sciences so as to ensure that

their research fellows make outstanding achievements in their research projects in cutting-edge branches and, in the course of this, grow to be world-class scholars.

The university should be vigorous in conducting scientific research and become a pacesetter in realizing the integration of education, scientific research and production.

In scientific research, it should focus on satisfactorily resolving the theoretical and practical, scientific and technological problems arising in building a powerful socialist country, on developing the sector of basic sciences and on pushing back the frontiers of science and technology.

The social sciences sector should add eternal glory to the immortal revolutionary careers and achievements of the great leaders, explain and verify the originality, truthfulness, veracity and vitality of Kimilsungism-Kimjongilism and the Party's lines and policies in a deep-going way, and give wide publicity to them. The natural sciences sector should make a positive contribution to solving the scientific and technological problems, including those related to food and energy, that are pressing matters in developing the national economy and consolidating our national defence capability. The sectors of basic sciences and cutting-edge science and technology should present research results with a world competitive edge.

It is important in building the university up into a most prestigious one to achieve the integration of education, scientific research and production.

True to the instructions Comrade Kim Jong Il gave in his lifetime, the university should consolidate the successes

it has gained in building the bases for conducting research into cutting-edge technology and developing intellectual products, and at the same time, build more of such bases and update its technical services, so as to apply them proactively to education, and contribute to setting up cutting-edge industries in the country.

It should push ahead purposefully with the work of building itself up as a hub of international academic exchange.

The university should organize regular international academic seminars, either by discipline or of a comprehensive nature, and expand its joint research with leading universities and research institutes in other countries.

It should ensure that its most outstanding academic papers are presented at authoritative international seminars and submitted for publication in international academic journals. The *Bulletin of Kim Il Sung University* should be designated as a specialist academic periodical of the country and developed into a world-famous one. The bulletin and books published by the university, including textbooks and reference books, should be authoritative enough, for them to be used in other countries as well as by itself and throughout our country.

**ON THE DUTIES OF THE WORKING
CLASS OF KIM IL SUNG AND
KIM JONG IL FOR THE TIMES
AND THE TASKS FACING TRADE
UNION ORGANIZATIONS**
(Excerpt)

**Letter to Those Attending the Seventh Congress
of the General Federation of Trade Unions of Korea**

October 25, Juche 105 (2016)

If they are to have a strong self-development capability and play the major role in the era of the knowledge-based economy, the working class and other trade union members should master modern science and technology. Nothing is impossible when the revolutionary spirit of the working class is combined with modern science and technology. The working class and other trade union members, bearing in mind the Party's intention to prepare all the people as intelligent workers, as scientific and technical personnel, should enroll in the study-while-you-work system, such as in distance learning courses, and study hard to raise the level of their knowledge of modern science and technology and their cultural attainments. They should reject the tendencies to rely solely on experience and to think of technology

as something mysterious, and they should present new inventions and valuable technical innovations, thus making a positive contribution to the scientific and technological development of their respective units and to the building of a knowledge-based economy. Trade union organizations should support and lead the working class and other trade union members so that they can stand in the vanguard of the campaign to make all the people well-versed in science and technology.

**ON IMPROVING THE ROLE
OF THE UAWK IN ACCOMPLISHING
THE JUCHE-ORIENTED
SOCIALIST CAUSE**
(Excerpt)

**Letter to Those Attending the Eighth Congress
of the Union of Agricultural Workers of Korea**

December 6, Juche 105 (2016)

UAWK organizations should regard the technological revolution as vitally important for agricultural development and socialist rural construction and make a positive contribution to achieving a high level of irrigation, electrification, mechanization and the application of agrochemicals in the rural economy. They should pay particular attention to the comprehensive mechanization of the rural economy so as to raise the level of mechanization in farm work radically. They should vigorously conduct the movements for invention, technical conception and technical innovation in agricultural development, and make sure that all agricultural workers possess one or more skills and know how to operate modern farm machines properly. Agricultural workers should be well-versed in agricultural science and technology and the latest farming methods and do all their

farm work in a scientific and technological way. In this way, they can become the practitioners and masters of scientific farming.

Stepping up the cultural revolution in the countryside is a key task in building a civilized socialist nation.

Agricultural workers should be involved in the study-while-you-work system, in line with the requirements for making all the people well-versed in science and technology, and they should be prepared as intelligent workers of the new era who possess knowledge of agriculture and of science and technology. If the halls of culture in ri and agricultural sci-tech learning spaces at farms and workteams are well run, agricultural workers can acquire a scientific and technological knowledge of farming and other fields, as befits the masters of a cultured socialist countryside.

...

UAWK organizations should carry out the Party's policy on scientific farming.

The present is an era of scientific farming, and agricultural production is guaranteed not by the natural and climatic conditions but by agricultural science and technology.

To bring about a turn in agricultural production, it is imperative to breed many high-yielding, superior grain species and propagate them on a large scale by holding fast to the Party's policy on the seed revolution. Along with this, efforts should be concentrated on fully solving the scientific and technological problems arising in agricultural development, such as developing advanced

farming techniques and methods, and inventing and introducing high-performance farm machinery and equipment.

The agricultural sector should breed seeds and distribute crops correctly as suited to the features of each locality, manure and cultivate them on a scientific and technological basis, actively introduce advanced farming methods and establish the food production cycle, thus raising farming to a higher scientific and intensive level. The sector should ensure that the validity and vitality of the Party's policy on scientific farming are constantly and vividly manifested in practice by increasing the number of farms, workteams and sub-workteams that conduct farming on the strength of science and technology and so enjoy the benefits of science and technology.

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 106 (2017)

The strength of self-reliance and self-development is that of science and technology, and the shortcut to implementing the five-year strategy is to give precedence to science and technology.

The science and technology sector should concentrate its efforts on solving the scientific and technological problems that arise in modernizing factories and enterprises and putting their production on a regular footing with the main emphasis on ensuring the domestic production of raw materials, fuel and equipment. Production units and scientific research institutes should intensify their mutual cooperation, and enterprises should build up their own technological development forces and conduct a proactive mass-based technological innovation drive; in this way they can push forward economic development with valuable sci-tech achievements conducive to expanded production and the improvement of business operation and management.

NEW YEAR ADDRESS (Excerpt)

January 1, Juche 108 (2019)

Talented personnel, science and technology are our major strategic resources and weapons with which to bring about a great leap forward in socialist construction.

The state should promote talent training and sci-tech development purposefully and increase its investment in them.

It is necessary to improve the quality of training talented personnel, who will shoulder the socio-economic development, by improving the teaching contents and methods in conformity with the world trend of developing education and pedagogical requirements. We should set a high goal of developing new technologies and concentrate our efforts on the research into core technologies of great practical and economic significance, so as to secure the tractive force of economic growth. We should also take institutional measures so that scientific research institutes and enterprises, in close cooperation, can boost production and technological development and enhance intellectual creativity.

**ON SOCIALIST CONSTRUCTION
AND THE INTERNAL AND EXTERNAL
POLICIES OF THE GOVERNMENT
OF THE REPUBLIC AT THE
PRESENT STAGE**
(Excerpt)

**Policy Speech at the First Session of the 14th
Supreme People's Assembly of the Democratic
People's Republic of Korea**
April 12, Juche 108 (2019)

2

...

The main forces that propel a self-sustaining economy are talents and science and technology.

We should make it part of our national traits to set store by talents and science and technology, and identify and appoint talents to suitable posts so that they can take the lead in production and the development of technology; and we should also steadily increase State investment in the field of science and technology.

We should reach proper decisions on major scientific and technological tasks and projects which are strategic, pivotal, profitable and economically important, and concentrate our forces and funds on them to ensure that

science and technology can render a decisive service to reenergizing the overall economy and developing the hi-tech industry.

