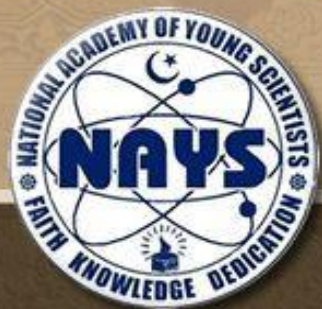
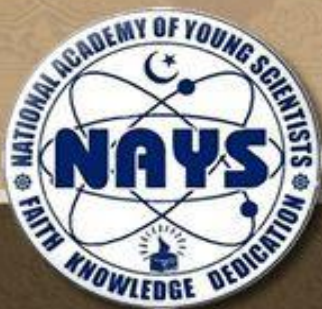
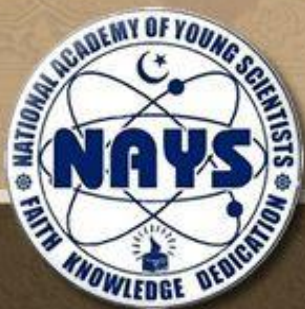


National Academy of Young Scientists Pakistan
Celebrating
Scientists Day

10th March

web: www.nays.com.pk email: events@nays.com.pk





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CELEBRATING SCIENTISTS' DAY- MARCH 10, 2013

Introduction:

Scientific inventions and discoveries have made the life of men easier and smoother. In the previous days men had to carry out very hard jobs as scientific devices were not available. With the passage of time, comprehensive education and knowledge developed. And special emphasis was laid on the study of science. Now there is hardly any aspect of life in which science and scientific techniques are not used.

Science knows no boundaries and at present, we all are probably enjoying the benefits that result from a scientist's work. Doctors study diseases and discover new cures and treatments for us. Agricultural scientists help bring fresh, nutritious products to our supermarkets. We can drive a car by the hard work of scientists. Chemists bring us health and beauty aids - from medicines to soap and perfume - to keep us feeling and looking our best. And science also helps us to answer important questions like which areas might be hit by a tsunami after an earthquake, how the hole in the ozone layer formed, how can we protect our crops from pests etc. These are just a few examples from our daily life. These creatures have led to the development in the field of agriculture, industrial progress, expansion of education, improved spread of transportation, means of communications and all.

"Science is much more than a body of knowledge. It is a way of thinking. This is central to its success. It invites us to let the facts in, even when they don't conform to our preconceptions" - Carl Sagan

Science had attracted the scientists for a myriad of reasons, but the one thing all had in common was that they believed passionately in what they do. The scientific method may be slow, but most of them recognizes and believe that the mechanistic procedures of the methods are essential to maintain science's validity and long-term objectivity.

"Only 1% of the science you conduct actually provides new information, and it is this new information that gives you the excitement to continue" - Peter Davies, plant physiology and plant molecular biology (Cornell University)

Scientists may be more curious about how things function, or more determined to use science as a tool to solve problems than the average person. But in doing "science," scientists must deal with the similar frustrations and joys that occur in all human occupations. Science has a substantially steep learning curve. Many of the scientists feel happy when they are working, even happier when they are working together with people. But sometimes the competition in science can inhibit the flow of new ideas, methods and procedures among people. They also have to manage the monetary constraints. And few of them sometimes can't escape the effects that human nature's competitiveness and partiality can cause in the work place.

"The only way to have real success in science, the field I'm familiar with, is to describe the evidence very carefully without regard to the way you feel it should be. If you have a theory, you must try to explain what's good and what's bad about it equally. In science, you learn a kind of standard integrity and honesty" -Richard Feynman



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Science-based careers are fastest-growing occupations nowadays. But why is it that no one really appreciates their efforts? We truly knew that any grand goal like curing a disease isn't going to be easy to reach, the thought of it, held firmly in place and surrounded by hundreds of smaller goals, but they are doing all these in a passionate manner and allowing themselves to go to work each day with enough reason to feel good, move forward and dedicate their lives for this cause.

"All of science is nothing more than the refinement of everyday thinking"-Albert Einstein

Therefore, *National Academy of Young Scientists*® (NAYS) being a Pioneer Academy of Young Scientists in Pakistan is going to lay the foundation of celebrating **Scientists Day**, on **March 10**, to pay homage to all scientists in the world for their prestigious services for Science. They truly helped us to understand many complex mechanisms in a very simple manner. By introducing this day, from the very first time we are going to acknowledge the efforts, determination and devotion of scientific community and scientists around the globe who are working day and night for the betterment of society.

"Where the world ceases to be the scene of our personal hopes and wishes, where we face it as free beings admiring, asking and observing, there we enter the realm of Art and Science"-Albert Einstein

National Academy of Young Scientists® (NAYS) are going to celebrate this day on March 10th, 2013. It is a contribution by Young Scientists to our renowned Scientists in recognition of their efforts in all fields of science which cannot be overlooked. The theme for this year is **"Bridging the gap between young and senior scientists"**. For this purpose, team NAYS-Pakistan has taken some comments (relevant to the theme) from professors, researchers and youth leaders etc.

Comments:



Dr. Jauad EL KHARRAZ

Information & Data RESPONSIBLE of the Euro-Mediterranean Information System, Water sector (France)

- General Secretary of Arab World Association of Young Scientists

- Expert Evaluator at European Commission DG Research & Innovation

- Researcher at the Global Change Unit (University of Valencia, Spain)
Arab World Association of Young Scientists (ArabWAYS)

"Bridging the gap between young and senior scientists" is a very good theme to be adopted for this year's NAYS scientists' day as far as this bridge is much needed especially in our Islamic countries. Senior scientists could play a vital role in mentorship, guidance and especially in sustainability of the scientific community and its research and scientific outputs. Young scientists can learn from the success stories of senior scientists but also from their failures stories to avoid duplicating works and innovate in what senior scientists could not achieve yet.



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This bridge or collaboration can be also concretized in working together in projects to which senior scientists can bring their experience and know-how, while young scientists can bring fresh ideas and their energy and enthusiasm. To achieve that aim, transparency, information flow and know-how sharing (e.g: national science information system) as well as a good governance of the science & research sector as a whole should be the best tools. Hopefully, networks and association such as the National Academy of Young Scientists (NAYS) of Pakistan, Global Young Academy (GYA), and the Arab World Association of Young Scientists (ArabWAYS) among others offer good opportunities and represent excellent platforms and environment to make the bridge between young and senior scientists cohesive and strong.



Dr. Mohammad Perwaiz Iqbal

Professor of Biochemistry
Aga Khan University, Karachi

In order to bridge the gap between young and senior scientists both will have to take a new resolution on the Scientists' Day, March 10. Young scientists will have to be more reflective in their practice and should be thinking more about the impact of their research at the national level rather than sheer number of the publications for promotion or research productivity award. They should not hesitate to seek guidance/advice from the seniors from time to time. They should appreciate the accomplishments of their seniors keeping in view the environment, circumstances and meager resources at that time. Above all, they should be somewhat respectful to them.

Seniors scientists should accept the fact that young scientists, in general, are smarter than them for a wide variety of reasons. They are more daring, more risk-taking, adept in the use of modern technology and are more tuned to take on the challenges of 21st Century. They should command respect by being kind, caring and a good role model to them. They should not intimidate them with the weapon of vast experience. They should guide them by being truthful, honest and ethical practitioner and a mentor who believes in giving and giving without expecting anything in return, except for a little respect.



Regina So

Associate Professor
Ateneo de Manila University, Philippines



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Listen to the wise advice of senior scientists- They may not be always right, but they certainly have more experience than you. As the saying by Isaac Newton goes: **"If I have seen farther, it is by standing on the shoulders of giants."**



Prof Muhammad Subhan Qureshi

Dean, Faculty of Animal Husbandry and
Veterinary Sciences
The University of Agriculture, Peshawar

Human history proceeds gradually, through disappearance of the existing generations, leaving place for new ones. The creation of our homeland has been followed by many tragic events; however we also gained a lot. The huge manpower, possessing the capacity to raise us into a superpower, has become a source of weakness for us, as we failed to educate, feed, train and utilize them well, pushing us into a so-called failed state. Still I can see a light at the end of the tunnel. The younger and older generations need to join hands for saying the truth; raising against evils; advocating for greater causes and networking closely and vigorously to achieve the ultimate goal of becoming a graceful nation.



Dr. Muhammad Aamir cheema

Research fellow
University of new south Wales, Australia

Everyone knows that collaboration between junior and senior scientists is a win-win situation for both; the junior gains benefit from the experience, vision and knowledge of the mentor and the senior is benefitted because the junior scientist is an addition in his resources. Since no one can deny that juniors learn a lot from seniors, i will focus on an aspect that is often ignored, i.e., the things a senior can learn from the young researchers. a young scientist is usually inexperienced and this sometimes is a blessing for a scientist; inexperienced tend to take steps no one ever has, they are more idealistic and are more willing to push the boundaries further, to try to achieve the impossible and to challenge the well accepted theories. They have a fresh perspective of the field and this may lead to exciting new discoveries.

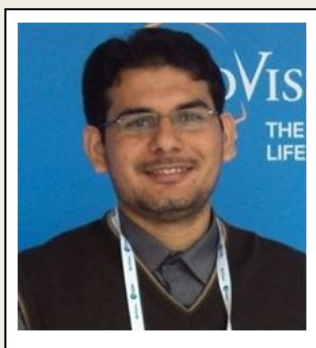


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I think the senior researchers can benefit a lot from this attribute; from time to time, a senior researcher must shed his experience, pretend to be a beginner, challenge some of the well accepted theories (guided by his intuition) and think out of the box.



Aftab Ahmad

President NAYS

School of Biological Sciences, University of
the Punjab, Lahore, Pakistan.

You can see lot of developments on daily basis, all are due to research work being done all over the world by Scientists who are working day and night to bring better life for all human. I am very pleased that our organization (NAYS) took initiative to celebrate this day both at national and international levels to pay tribute to all scientists around the world and hopefully it will be celebrated on regular basis now. The theme of this year scientists' day is very important as developing countries in particular are facing serious challenge due to gap between senior and junior scientists. Seniors being expert should properly guide and mentor the young scientists and youngsters should get benefit from senior scientists. In my opinion, senior being an expert and junior being with more working potential and aware about latest technologies can do much better job, if they work in close association. In addition young scientists should be invited in senior scientists' meeting so they could learn about policy making and also could participate in discussions that will result in more aware future science leaders. The productivity of junior scientists can be increased many folds if they get appreciation from senior scientists so they should be encouraged and appreciated time to time.

The efforts of Global Young Academy (GYA) are appreciable in this regard as they are encouraging young scientists and trying to have close association of National academies and National Young Academies so senior and young scientist could work more closely for the better of mankind.



Qaiser Iqbal

Bioresource Engineer

McGill University Montreal Canada



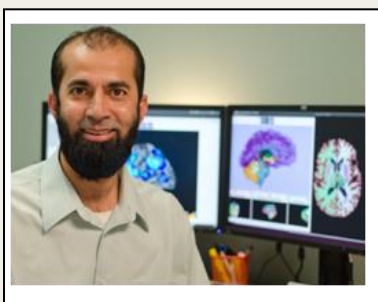
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I am glad to see young scientists are doing great efforts for the awareness & betterment of science and technology in Pakistan. We are living in a virtual world of internet and almost everything is related to the time and time is so important in science. Along with very limited resources and less encouragement from senior scientists and institutions, our NAYS scientists have broken the ice. The topic is the making of a bridge to minimize the gap between young and the honorable seniors. Before we go into this issue, we must find the root cause of this gap. One main reason of this gap is the communication problem among the generations of scientist in our county. Our cultural system do not allows young students to question about their senior's research.

Second problem is science and industry collaboration. Seniors scientist had not transferred research into industries and because of this most of the research projects are still inside the library of many universities in Pakistan. Another important reason of this big gap is the availability of a common platform for scientist to speak with their seniors. We have seen many different societies and forums for different areas but we need some common forum as science is interrelated with different areas of studies. The foundation of NAYS is the solution of this gap and incorporating this bridge between young and the senior scientist of Pakistan. With the help of NAYS data base, many young scientists would contribute to the advancement of science in Pakistan.



Dr. M. Ayaz Khan

Research Fellow

University Of texas southwestern medical
center, Dallas, TX, USA

In the start, it is always an idea which becomes a proposal may than become reality to change human life. "Aim high and Work Hard"



Faisal Mohammad Amin, M.d.

PhD. student

University of Copenhagen, Denmark

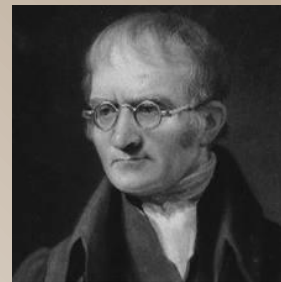
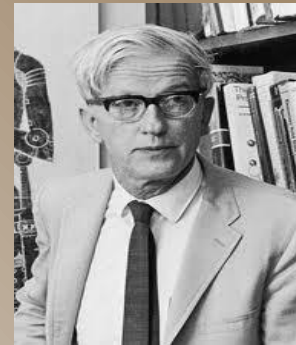
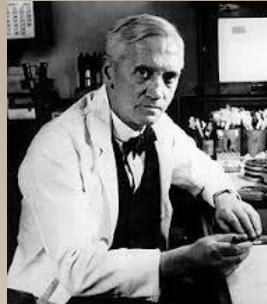
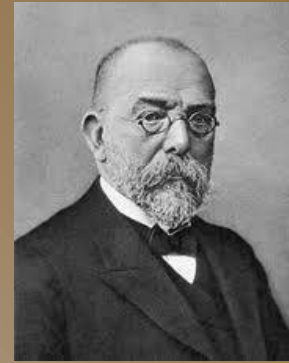
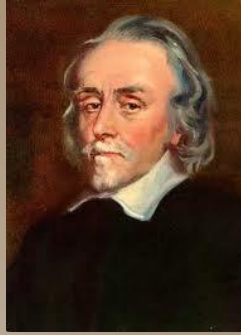
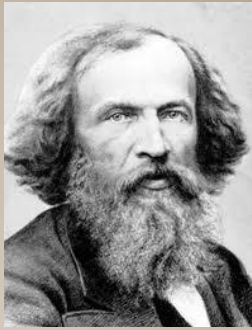
Young and senior scientists are players on the same team, but with different roles. Good teamwork is a fundamental need to push science forward. Initiatives to bridge the gap between young and senior scientists should therefore be considered as important contributions to science. I would like to congratulate not only NAYS-Pakistan, but also all scientists on this special day!



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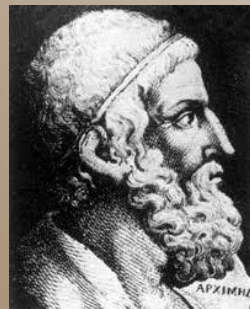
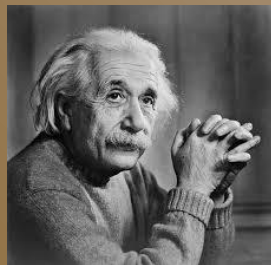
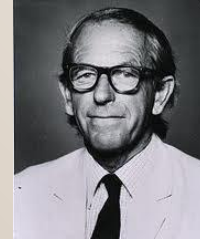
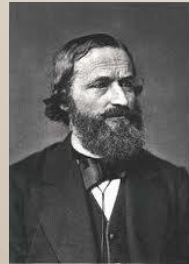




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Thank you for joining hands with NAYS-Pakistan

