Made in Palestine >>



















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Preface

For the sixth year in a row, a new group of young Palestinians present their original ideas and innovations to the public stepping with them forward towards improving the culture of excellence and innovation in Palestine. Since the year 2005, we have started with slow but sure steps, placing one rock over the other to accumulate enough experience in the Palestinian young people who believe in their economic and political sovereignty. Such youth are believe in knowledge, science, and innovation as a path to more creative scientific and technological production and freedom from blind consumption.

The Palestinian Innovations' Exhibition and Competition "Made In Palestine 2011" sheds the light on the most important innovations Al Nayzak supported through this year's cycle of Made In Palestine program. We incubate the ideas when they were still on paper, and work with the participants to improve them until they are ready to be launched in the business world. Some of those ideas will succeed, and some will need more improvements to start the journey. Eventually, all participants and their projects in the West Bank, Gaza Strip, and Jerusalem are transferred into a different level that is more realistic, based on scientific and action research methods, and distant from imagination and higher than reasonable expectations.

In the end, I wish to extend my sincere thanks and gratitude to all who participated in this year's journey, especially those who, in their areas of expertise, formed an example for a true culture of partnership. Such partnership contributes to building our beloved Palestine and promotes young innovators and helps them achieve their aspiration. It makes them ready to join the journey of building their communitites as they wait for investment opportunities to embrace their innovative projects.

We present our utmost thanks to our main partners in the Swedish Diakonia in Jerusalem for funding this program and maintaining its journey on the way to accomplishing its goals. We further thank the program's participants who innovated and excelled. We also thank all the universities and academic institutions that put its academics in supporting the program through membership in the steering committee or the judging committee.

We thank our final event sponsors especially mentioning our golden sponsor-Palestine Development and Investment Ltd (PADICO), our bronze sponsor-Al Quds Bank, our media sponsor-Palestine Satellite Channel, our radio sponsor-Ajyal Radio Network, and the Insurance sponsor-Trust International Insurance Company.

Last but not least, we thank all individuals and organizations all over the country who contributed to the success of this year's round of the program.

Made in Palestine 2011

Al Nayzak Organization continues to use unique and innovative methods and motivates the learner to explore so as she/he is a partner in knowledge rather than only a receiver. He/she explores and discovers on their own through practical interaction.

Al Nayzak plants scientific and thinking skills in the individuals until the methodology of scientific thinking becomes a habit in their daily life. Acquiring thinking skills and linking them to real scientific and technical knowledge is the soundest way to face challenges in the path towards excellence. Hence, the person becomes a beacon of light carrying the torch of positive change into his/her environment which contributes to constructing a modern society.

Made In Palestine Program is considered a contributing channel in the process of building the Palestinian community. It is an annual program through which Al Nayzak aims to link scientific university research and professional research on one hand and business and industry on the other, in an effort to provide solutions to the technological, scientific and industrial problems faced by local society. The program's essence is to provide Palestinian innovators inside and outside universities with the feasible opportunities and possibilities to achieve their hopes and aspirations which, in turn, develops the participants' entrepreneur skills. To achieve that, Al Nayzak provides the participants with interactive training sessions, connections with researchers and investors in Palestine and the region, networks them with scientifically their peers around the world. It also raises researchers' and innovators' interest in the economical value of their innovations. In addition, the program increases the community's confidence in Arab and Palestinian technology experts and their ability to solve local technological challenges.

Al Nayzak concludes Made In Palestine Program for the year 2011 with the Palestinian Innovations and Inventions Exhibition and Competition. Around 40 entrepreneur project participates from the original 250 applicants. The participants underwent several stages of unique training sessions and skills development, whether personal, technical, or business related. The program also included one-on-one trainings for the participants about subjects that varied from preparing business plans to writing the innovations' scientific papers.

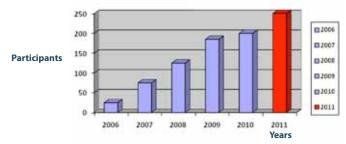
Some of the innovation ideas received basic funding for building the first prototype. Through the awards ceremony of the competition, light is shed on the participating projects to better introduce them to the business sector.

Out of Al Nayzak Organization's interest in continuing its support to the youth's entrepreneur projects outside of simple award granting, it presents this booklet which holds several innovative projects in addition to information about the program's successes on national and regional levels.

Building the Culture of Entrepreneurship and Excellence in Palestine:

Al Nayzak Organization has been working hard to step up with "Made In Palestine" program throughout its cycle for the year 2011. The spread of the culture of innovation and excellence was shown in more than an increase in the number of applicants. Made In Palestine innovators won prizes in international competitions, most importantly Made In Arab World which is organized by Arab Science and Technology Foundation-ASTF in the UAE. Al Nayzak Organization is considered the Palestinian tributary for it's the Made In Arab World competition. Palestine, through Al Nayzak's Made In Palestine innovators, won three prizes one of them was first place in professionals category in Made In Arab World 2009.

The following graph represents the increase in the numbers of applicants for Made In Palestine program.



Made In Palestine 2009& 2010 Success Stories:

On the way to accomplishing the program's goals in linking scientific university and professional research on one hand and the business sector on the other, two of Made In Palestine winners from the years 2009 and 2010 managed to co-found two Palestinian Companies that are over 50% owned by the innovative youth themselves after they excelled in their projects' business plans they developed on the program.

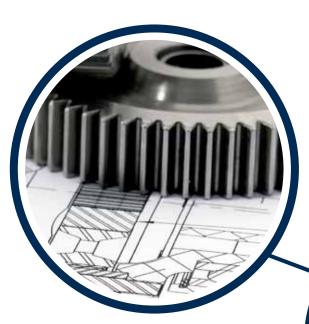






Participating Projects in Made in Palestine 2011 Competition

Engineering category









Engineering category

Electronic Soil Turner

Participants: Wafa' Mahamdah, Huthaifa Hamayel, Aamer Hamayel

Average employees suffer the lack of time to care for their fields which interested us in producing a robot that is dedicated to grub and ventilate the soil after planting it. This robot is small which allows it to fit for grubbing small docks and house gardens, in addition to its ability to automatically grub the soil around the plant from all sides. The robot uses clean energy (solar cells and batteries) which helps in its mobility.



Robotic Arm for Soldering

Participants: Mahmoud Abu Arrah, Areen Samara, A'ala' Shahin, Asma' Salman

This project is a device that handles the problems students face when they have to weld electronic parts to electronic boards. Their time limitations in addition to their lack of experience in soldering put them against several problems which this Palestinian product solves.



The device is a compacted one and could be used for privet and personal needs.

Smart Home

Participants: Adbdulrahim Abu Saleh, Raed Hijjawi, Mohannad Qutob

A big number of technicians and specialists in the area of controlling electric applications are required to apply several duties in remote control. This urged the designing and manufacturing of a prototype for a unified system that allows technicians to control different electric applications according to costumers' orders. It is possible to remotely control this model through landline phone, cellphone, or the internet. The application uses a common innovative protocol that



was developed by the team and fits different devices. Further, the device has the ability to connect with electronic devices through (WiFi) technology to facilitate dealing with the equipment already existent in the market.



Engineering category

Chess Player Robot

Participants: Mohammed Sharif, Ahmed Saheb, Rami Yaghmour, Mahmoud Jalq

This project makes it easy for us to play chess with a robot through an electromechanical system that is fully able to play chess against humans. Robots are able to move the robotic arm in any direction on the chessboard, think and make decisions, and move the chess pieces.



Smart System to solve traffic problems

Participants: Tayseer Atta Allah Rami Halawah, Obai Khalil Eshtayeh

Crossing a red light is one of the most common violations that occur in the transportation sector in large cities. Such violations have gained more attention with the passage of time because they lead to many accidents. Therefore, our project works wirelessly and within an uncomplicated environment to operate a system for monitoring cars that cross a red light through a camera installed near traffic lights to detect the violation. Afterwards the taken picture is sent to the server through a wireless system which works to store and arrange these pictures



of the cars. The pictures are then received through a computerized program that extracts the car number from the image and recognizes the driver using data from the police department and then sends an SMS to the car driver.

EMAR Refrigerator



Participants: Raed Nihad Abed el Hamid Abu Munshar, Mira Mohamad Yakoub Da'do', Hamzeh Mohamad Ismail Arafeh

When we store food in the refrigerator, some of us do not realize that each product has an ideal temperature for storage that is different than the other. This new system provides a sophisticated model for cold rooms and consists of three separate cooling chambers, each chamber has one of three temperatures (0,5,8) Celsius degrees. This

feature will be using the same compressor with some technical change.

The proposed cooling system is a low power consumer, has low production cost, could be produced through modifying existed systems and has a full line of maintenance.

Control Card for Car Lights

Participant: Ahmad Mohamad Sawalmeh

If you are driving at night then you must have experience reduced visibility when the head lamp high beam of another vehicle in the opposite direction faces you. It becomes more difficult when the driver of the vehicle approaches from the opposite direction without noticing that he is causing your vision to decrease or even causing it to completely disappear. This problem increases the chance of traffic accidents. Thus, this project aims to add a card that controls the level of brightness in the head lamps of a vehicle, and this new system automatically adapts its level to low beam at the confluence of two vehicles with each other and with those coming in the opposite direction.



Insects Tsunami

Participant: Ahmed Abdullah M'aani

If you are a farmer or an owner of a greenhouse, you must have had a problem with rodents, insects, and/or pests that attack crops or the storage causing large financial losses. This problem urged the idea of producing the "Tsunami" which is a device that produces ultrasound waves that put the rodents and insects in a hysterical state that directly affect their nerve system and brain keeping them in discomfort which ultimately leads to fleeing the place or entering into coma.



Modern Potato Planting Machine

Participant: Ibrahim Mohammed D'aabes

Potato farmers nowadays face several problems but most importantly that potato tubers are different in shape. The existing machines deal with only one size of tubers. Therefore, there is a need for a potato planting machine that handles all shapes and sizes of potato tubers. This machine will be able to lower the crop cost, and increase its productivity through accelerating the work process, decreasing the loss, and dealing with all types of soils which in the end results in decreasing the farming stages from four in the traditional methods to one using the new machine.





Engineering category

Diagnosing Heart Patients Using The Global System for Mobile Communications

Innovator: Ibrahim Naji Radwan Nassar

Integrating Information Telecommunication Technology in the Medical Sector revolutionized the latter. This project was constructed in response to the needs of the health sector in Palestine to develop the health services and lower financial costs for patients. This project is very accurate and fast in diagnosing heart diseases. Diagnoses takes place when the ECG signals are transferred wirelessly through a device that is attached to special medical connections to the patient's limbs. This device sends the diagnoses to his/her doctor's computerized program to be



reviewed and checked. This project saves patients from the need to travel to see the doctor especially if they live in remote villages thus also lowering financial costs.

Engineering category, Gaza projects

Automatic Synchronization Dual Electrical Generators

Participant: Ahmed Abu Dabouseh

Continuous interruption of the electricity current in Gaza causes the need to operate more than one electricity generator for large networks like those in universities or hospitals. Using several generators results in a lot of operation, maintenance, and technical problems. Therefore, in this project, electricity circuits that connect more than one generator and synchronize all of them so as all buildings are connected to the networked generators. Generators then become able to provide all buildings with a regular electrical current. In case of failure in any of the networked generators it could be easily fixed and exchanged without a need to disconnect the electricity current off of buildings or organizations.



Electronic Braille Teacher

Participants: Amira Al Rayyis, Ala' Hussein

Teaching blind children Braille language through the traditional methods requires a special instructor and a period of time that may go up to two years until the child is able to distinguish letters and numbers. This problem encouraged the team to construct "Al Baseer" device that allows children to learn Braille language on their own without the need of an instructor. The device includes a system that reads specially designed audio cards that produce the sound of the letter when inserted into the device after the student checks his/her memory in writing the letter on the devices' keyboard. This device very efficient and easy to use in comparison to other devices that are available in the market.



A Safety Circuit for Protection from Increase and Decrease in Voltage

Participants: Basil Yousef, Kanaan Obeid

The frequent failures that cause sudden high or low voltage and the negative consequences resulting from this problem led the team to design a protection circuit to counter this problem. This circuit cuts the electricity current when there is a sudden increase or decrease in the voltage, then re-powers automatically when the voltage returns to regularity. This project is low on cost compared to other circuits in addition to being easy to install.



An Automatic Exams Corrector

Participants: Khaled Lafi, Fadi Abu Sa'da

This project is an automatic device that is used to accurately and quickly correct questionnaires and test papers (multiple choice and true or false questions). A program has been developed to enable the user to control the device, receive data, store it, and then compare it to the previously stored typical answer. The results of the tests are stored and report cards can easily be printed in different forms indicating students' names, results in percentage, and the number of correct and incorrect answers.





Engineering category

Remote Control

Innovators: Sami Ruqa, Mohammed Aqel

Following up on the different challenges that people who are physically handicapped face urged the construction of the Remote Driving device. Using Bluetooth technology, an acceleration sensor, and a sensor for the integrated movement in 3G cell-phone devices like Nokia N95. When the device is moved towards any of the four directions the acceleration sensor circuit senses the movement and incline and brings back the information through a program that was specially developed with the Python language (PyS60 Python), then the information are transferred into movement orders in the device we wish to move.



Wireless Weather Sensing Network

Participants: Shoruk Shaath, Asma' Radi, Rafif Sadeq

After several visits to farmers and fishermen in Gaza Strip, the team realized how much the lack of sufficient, accurate, and affordable source of information about weather conditions (temperature, wind direction, speed, and relative humidity) cause the farmers and fishermen to suffer. This project therefore aims to measure and monitor the weather through a special device that the team developed for this purpose. The device presents the information in an easy way and allows the information to be send to a special site on the internet.



Identification Using Eye Print

Participant: Shaban Sahmoud

This program is able to take human eye print through a good efficiency camera. The camera takes several pictures of the eye, selects the best, locates the retina, and then stores the eye print in very small place which does not require large

storage space. The program overcame several problems that are caused by blinking, eyelashes, and expansion in the eye pupil.



Electronic Key is "iButton"

Participants: Eid Agha, Mohammed Salah, Abdullah Dalloul

The Electronic Key "iButton" is a modern system to administer and organize access into halls and rooms in institutions. This system depends basically on the iButton technology. The key is programmed using a special device that is connected to the computer in order to issue the appropriate authorizations. Then, the key is distributed to the users to easily open rooms. The project's device provides the ability to view and print statements and statistics of the rooms or the users. This device is highly efficient and has a low cost. In addition, it uses methods and technologies that are available in the local market.



Plasma CNC Machine

Participant: Mohammed Rimawi

This project is a machine that is dedicated to cut different types of metal like iron, aluminum, and stainless steel using Plasma beam. The user installs the shape that he/she wants to cut the metal like. Then, the computer moves the machine according to the outlines of the installed shape, cutting the metal with high accuracy and speed.



Medical Ozone Generator

Participant: Mohammed Abu Matar

The project is a device for generating ozone gas that is used in medical sterilization and treatment. The ozone particles have the ability to kill all types of bacteria and viruses, in addition to its ability to revitalize weak tissues to strengthen their immunity through providing them with oxygen which intensifies their ability to fight disease and rebuild without side effects.





Cooperative Communication Network: Problems and Solutions

Participant: Mohammed Al-Astal

Our need for cooperative wireless communications to replace traditional communications comes from the problems in connecting to the medium station. These networks overcome the effects of the multiple tracks phenomenon without installing several antennas at both communication ends. This project proposes a fast and efficient algorithm that is less complicated than similar proposed algorithms which solve the broadcast synchronization problems. Thus, the project overcomes a major obstacle facing the application of cooperative wireless networks.



Electromagnetic Induction Oven

Participant: Mahmoud Alawi

This project is an electromagnetic oven that heats iron and melts it using the electromagnetic field that the Coil generates in high frequency. This process eventually generates movement and high friction among the electrons of the targeted metal which raises its temperature until it melts.

Control System Using Hand Movement

Participants: Ahmed Skeik, Mohammed Dahdouh

In this project, computerized algorithms are produced to transform the hand gestures captured by computer cameras into commands that can be used in controlling applications like PowerPoint presentations or videos.





Energy and Power category

Compressed Air Car

Participant: Saed Mohamad Abu Rayyan

The negative effects of using fossil fuel (coal and oil) on the environment and its balance urged us to think of an alternative for using fossil fuel for cars. A new four-stroke combustion engine was developed into a two-stroke one. This was done through additions and amendments on the engine's head which store the air in special cylinders, then compress it in tanks through an electrical air compressor. The distribution of the compressed air is controlled through a control system that uses electrical cylinders that are installed on the engine, and through sensors that are installed on the crank shaft



Energy and Power category, Gaza projects

Palestinian Wind Turbine

Participants: Mohammed Al Aydi, Jihad Jarghoun, Shadi Al Faqawi, Abdullah Arafat

Our need for an electrical current that is independent from any outside parties to avoid continuous cuts urged the team to design a blueprint for an air turbine that generates electricity using the renewable energy of wind.

The tools used to construct the prototype are recycled material which supports the recycling and environment conservation ideals of the project. The tests results on

the project's prototype approved its ability to serve in coastal areas like Gaza Strip and mountainous areas in the West Bank.







Diakonia is a Swedish non-governmental development organisation, created more than 40 years ago by five Christian denominations. Diakonia works in partnership with over 400 civil-society organisations in 34 countries in Africa, Asia, the Middle East and Latin America. Together with our partners we work with a long-term and rights-based perspective within the following thematic areas: democracy, human rights, social and economic justice, gender equality, and peace and reconciliation.

Diakonia's vision is for each and every human being to live a dignified existence in a just and sustainable world, free from poverty. Our mission is to change unfair political, economic and social structures that generate poverty, oppression and violence. The basis for all our work is the will of people to change and improve the world. Our efforts are aimed at people whose lives are compromised by poverty, oppression and/or violence in various ways. Our strategy for change is to raise the awareness of individuals of their rights, and empower vulnerable groups in society to come together and organise themselves to work for sustainable change of oppressive political, cultural and economic structures.

As a result, Diakonia organises its strategies into the levels of knowledge/awareness, organising, action and influence. Diakonia wants to give a voice to the poor in relation to those in power and seeks to empower the rights holders to be the agents of change and owners of the process of demanding their rights. We work in strong partnership with local organisations, based on common values, open dialogue and trust. With few exceptions, Diakonia does not implement projects but strengthens and empowers civil-society organisations to change their own reality. The concept of "good donorship" is key to our work, characterised by partners' ownership, support to partners' own agendas and strategies, long-term predictable funding, competence development based on partners' defined needs and donor coordination around a partner. In each country the partners form a country programme. Diakonia promotes cross fertilisations, encourages synergy and coordination within the partner group in a country programme.

In each country we identify central obstacles and problems within our thematic areas, as well as forces for change in civil society. We search to find our specific niches, and with whom to build strategic alliances for greater impact. Diakonia has been working in the Middle East region since 1967 to address the lack of peace and security, to increase respect for human rights, gender equality and democracy, as well as to eradicate the multidimensional aspects of poverty.



Golden Sponsor (PADICO Holding)

PADICO HOLDING is a limited public shareholding company traded on the Palestine Exchange (PEX) with a paid-in capital of USD 250 million. Since its inception in 1993, its mission has been to develop and strengthen the Palestinian economy by investing in vital economic sectors.

PADICO HOLDING's mission to develop the Palestinian economy is being fulfilled through a well-structured, focused, and resourceful group of associates and affiliates that invest in major sectors in line with the company's overall strategy. These include real-estate, telecommunications, tourism, industry, agriculture, environment and financial services.

Information Technology









Information Technology

E-Government-Between Theory and Practice

Participants: Mashael Yasin, Asma' Muna, Nouriddin Burghal

The information technology revolution that is sweeping the entire world is resulted from major changes in the structure of knowledge and technology which produced what is called (e-government). The main objective of the "e-government" is expanding governmental services to overcome the geographical and human limitations to connect with more people in their locations in the suburbs as much as in the cities all in descent speed and around the hour.



A computerised System for Patient Files

Participant: Ruba Salameh

After several visits to the Palestine Medical Complex and recognizing the method that is used for transactions, a new website was especially developed for the medical complexes to help users identify the different sections and help doctors and patients, in addition to raising the level of interaction and communication between doctors and their patients. The computerized system for patient files forms a comprehensive medical record for each patient that allows doctors to easily follow up the patients' medical conditions



Marhaba Falasteen!

Participant: Ayman Arandi

The project aims at helping tourists and visitors to experience Palestine in new and unique ways. They can obtain their needs in a quick and easy way without losing their destination. The project is an electronic tour guide on a touch screen device that allows users to benefit from the many applications dedicated to help tourists do many activities during their stay in Palestine without the need for internet!





Information Technology

Interactive Rehabilitation of Upper Limbs

Participants: Hanan Akkad, Hayam Masri

The project depends on designing interactive games to be used during occupational and physical therapy provided to people with impaired upper limbs. The interactive games create a motivational environment that encourages therapeutic movement.

The games depend on a web camera which connects to a computer that is placed facing the patient. The webcam follows the patients' movements and translates them into movements within the games.



Voice Source Locating and Recognition

Participant: Abdulhadi Telbani

This project is a game that helps improve auditory skills whether the player a child, a patient or an ordinary person. It is a multisource audio system that produces sounds randomly from different sources and locations.



DADA

Participants: Mohammed Yousef, Mohammed Zeini, Ahmed Al-Allouk, Media Soft Team

The project aims to employ consensual reality games that depend on webcams in alleviating the suffering of people with special needs especially those with hearing problems. The program converts text to signals understood by the deaf. It also converts the signals presented by the deaf into text that could be stored and transferred. This system is necessary for associations that care for the deaf, and it is essential for deaf children aged 3-9 years old because it helps them overcome the difficulties they face while learning reading and writing.





meCaptcha.com

Participants: Mohammed Fahjan, Yousef Ayyash

The project is an online service that achieves the principle of information security depending on a strongly founded algorithm. The service is used as alternative to the "captcha" services that are commonly used in all websites when registering a new account or login into accounts. The service is unique for its logical and easy interactivity with users and its handicapped friendly characteristics.



Soft Nour Program

Participant: Mohammed Abu Oun

Despite the difficulty in producing virtual classrooms software for the blind, a humanistic motive was behind the production of this service based program.

The program allows the blind to learn using the computer individually, especially learning typing and using the keyboard. The program works with them towards mastering typing through easy sound guidance that facilitates the learning process for them.



Teaching Through Cell-Phones for Palestinian University Students

Participants: Heba Abu Eitah, Muna Sabakhy, Isra' Samarah

This project is a website that provides university and college students with cellphone applications that allow them to access several services like class registration or accessing grades easily and from any location in the world at anytime.









Bronze Sponsor (Al Quds Bank)

Al Quds Bank was founded on April second which became an annual celebration day for the bank and its administration for the special meaning this day holds for the Board of Directors and all employees. This day represents the culmination and continuation on the journey of excellence through which Al Quds Bank grew into one of the biggest and most actively developing banks in Palestine. The bank provides its modern banking activities through it's headquarter in Ramallah, as well as its 21 branches and offices spread all over the country.



Insurance Sponsor (TRUST International Insurance)

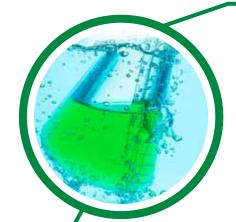
Trust International Insurance Company (Palestine Insurance) was founded by a group of Palestinian and Arab businessmen who have unique and enriched experience in the insurance sector throughout the Arabic and international markets.

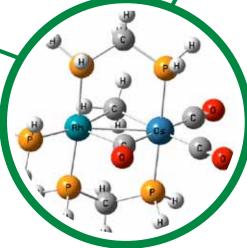
Trust Palestine, which expanded its activities to reach all four areas of the holy land, started in 1994 as an associate company for the Trust International Company which is one of the largest and most important insurance groups and reinsurance in the Middle East.

As it aspires with much preparation to enter the second half of the second decade since its establishment, Trust Palestine continues to provide protection and security to the people, and supports the country with experienced and capable cadres in order to efficiently contribute to building the economy and achieve the promise of its development.

Environment & Chemistry category









Environment & Chemistry category

Biologically Producing Lactic Acid from Cheese liquid

Participant: Muntaha Ishtayyeh

We usually face general pollutants in Palestine which we don't know how to dispose or handle. Palestine produces over 38 thousand ton of cheese liquid or what is known by milk whey which are usually disposed through the sewerage network. This is what triggered the idea of using this liquid to produce what is called lactose sugar and biologically transform it into Lactic Acid that is used in several pharmaceutical, food, and cosmetics production.



Solar Car: Eco PlayBus

Participants: Mohammed Salem, Hasan Hammad

Cars that run on solar energy have been more noticeable nowadays. However, what makes this car unique is its ability to run on two energy sources, solar energy that come from the panels that are installed on the car's top, and the human physical energy. Like a bicycle, this car includes specially designed pedals that the driver and the person sitting next to him/her use to provide the needed energy to move the car. This Palestinian innovation is very environmentally friendly for its usage of clean energy sources



Recycling Used Car Oil

Participant: Sahar Barahmeh

The mismanagement of used car oils in Palestine is causing serious environmental problems. These problems urged the thought of a way to re-use the oils through the production of a machine that recycles them into lube that is used to lubricate the mechanical parts or cars and machinery which eventually lowers the environmental risks and preserves the environment.





Environment & Chemistry category, Gaza projects

The Production of Acetic Acid and Vinegar from Fruits and Sugar Produced in Soft Drinks Factories in Gaza

Participants: Hussein Ajrami, Ismail Quqa, Sarah Abdul Salam

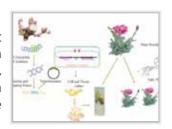
The project aims to address the lack of natural vinegar in local market through finding a process to derive natural vinegar from natural substances using high quality, safe, and clean technology. Such process fills the markets' shortage of natural vinegar and supports natural national products.



Improving the Capacity of Carnation to Counter Saline Water Irrigation

Participant: Nisreen Bader

This project is a study to produce new strains of Carnation which is one of the most important exported Palestinian crops. The study aims to provide more irrigation opportunities for this crop as it solves the problems of saline water irrigation. One acre of Carnation requires over 1200m3 daily of fresh water which makes it a partner for humans in this natural resource. Producing the new strains require the use of genetic engineering.



Solar Water Desalination Unit

Participants: Energy Production Company, Thafer Helou, Sumayya Fannaneh, Nabil Helou

The project is a water treatment and desalination unit. This unit produces approximately 38 litres of drinkable water per day. This unit depends on solar energy as a primal source of energy thus it is environmentally friendly.





While the Unit includes one mirror, more mirrors can be added to serve in educational, health, and housing sectors and produce over 2000 liters per day.

Made In Palestine 2011 Judges



Dr. Amer Al-Hamouz

Associated professor in the Department of Chemical Engineering. Dr. Al Hamouz has many areas of interest including the environmental impact of chemical industries, safety engineering, manufacturing chemical products and solid and dangerous waste management.



Dr. Nabil Hasasneh

Associated Professor at
Hebron University.
Holds a Ph.D. in Computer
Engineering from University of Hull,
U.K. Hassasneh Presented more than
15 scientific papers in international
magazines and conferences in
the field of computer science and
information technology.



Dr. Khalid Khanfar

Dr. Khanfar Holds a Ph.D. in Computer Science, he is the Head of the Computer Science Department at the Arab American University – Jenin.Worked for many years in the field of information technology in many international companies and universities and has numerous publications in the field of information technology.



Dr. Samer El Saadi

Dr. Saadi is a Ph.D. holder in Electrical Engineering from Moscow Energy Institute and subsequently worked in Palestine Technical University. Has numerous publications relating to the field of energy.



Dr. Ishaq Sider

Holds a Ph.D. in Mechanical Engineering in Air conditioning. Held a number of management posts in the Palestine Polytechnic University and currently also holds the position of Head of the Committee of the Hebron Branch of the Engineers Union.



Dr. Safa' Nasreddine

Holds a Ph.D. in Electronic
Engineering from ENSEIRB, Bordeaux
University in France, 2003.
Dr. Naserddine was involved in
many consulting activities in order
to improve the quality of education
in Palestine generally and Jerusalem
specifically. Dean of the Hind
al-Husseini Women's College in
Jerusalem.



Made In Palestine 2011 Judges



Eng. Firas Nabil Khoffash

Acquired a B.Sc. in Electronic Engineering from Yarmouk University in 1995. Currently works in the field of Electronic Control and Maintenance in Nablus Municipality.



Eng. Aref Husseini

A physicist and electronic engineer, has worked in different industrial companies, in 2001 Mr. Husseini has established Alnayzak organization, Which aims to support young people in developing scientific innovation projects.



Eng. Ayman Sbeih

Mr. Sbeih is a mechanical engineer, he Considered as one of the pioneering Palestinian figures specialized in developing industrial investments projects, in addition to being a businessman who has held several posts including the Secretary General of the Palestinian Federation of Industries PFL.



Dr. Ahmad Nasser

Dr. Nasser Holds a Ph.D. in Environmental Chemistry; he is a researcher and chef scientists in the Institute of Environmental Research and Agriculture (Volcani). Oversees many scientific programs at Al Nayzak.



Dr. Ahmed Abu Haneieh

Dr. Abu Haneieh is Specialized in the field of mechanical vibrations. He is an Author of many books and publications in the field of controlling vibrations and fluid power, in addition to being a member of the Palestinian Society of Solar and Sustainable Energy.



Mr. Jameel Sultan

Mr. Sultan is a Researcher interested in the development of institutions. He holds a Master's degree from the University of Detroit in the field of computer and information systems Works as a consultant in management and market studies.







Ms. Fairouz Darwich

Ms. Darwish Holds a Master's degree from the University of Western Michigan.

Worked in various private and governmental institutions, she served as a main financial analyst in PADICO in addition to her work as an administrator for financial and civil institutions in the Ministry of Finance.



Eng. Jalal Eid Salaymeh

Mr. Salaymeh holds a Master's
Degree in Mechanical Engineering
from Jordan University in 1991.
Currently works as Dean of Applied
Professions in Palestine Polytechnic
University. Eng Jalal is an expert in
the field of education and vocational
and technical training.



Dr. Rashid Jayyousi

Dr. Jayyousi holds a PhD in Computer Science from Kiel-Britain. Currently occupies the post of the general coordinator of the E-learning intervention project in Palestinian schools within the ministry of education.



Dr. Samer Mayyaleh

Assistant Professor in the
Department of Electrical Engineering
at An Najah National University,
Dr. Mayyaleh is the former Dean of
Hisham Hijjawi College
He has been contributing to the
development of several remote
control systems that are currently
applied in the Palestinian Markets.

Gaza Jury



Dr. Mohammed Abu Heibeh

Assistant Professor in the Department of Industrial Engineering. Holds a Ph.D. in Mechanical Engineering from the University of Toledo - United States. Former Head of the Department of Industrial Engineering.



Dr. Mohammed Hanjouri

Holds a Ph.D. in Electronics and Communications Engineering from Mansoura University – Egypt. Former Director of the Center of Research and Projects in the Islamic University. Has a broad research activity, supervised and discussed many Masters theses and has many published papers in several areas of research.



Dr. Hatem El Aidi

Assistant Professor in the Department of Electrical Engineering–Faculty of Engineering. Holds a Ph.D. in Systems and Control from the State University of New Mexico, U.S. Former President of the Center for Development of University Sources.





Dr. Sana' Sayegh

Assistant Professor – Coordinator of Technological Education in the Bachelors degree. Holds a Ph.D. in Computer Science from the Graduate Institute of Computer and Informatics – Baghdad – Iraq. Member of the scientific committee to evaluate research papers for the Arab International Conference of Information Technology.



Dr. Ihab Zaqqout

Holds a Ph.D. in Artificial Intelligence from the University of Malaysia in Kuala Lumpur.

Has a broad research activity and many published papers in several areas of research.



Dr. Asaad Abu Jasser

Holds a Ph.D. in Electrical Power Engineering from the University of Bremen, Germany. Assistant Professor in the Department of Electrical Engineering, Faculty of Engineering. Previously worked as Graduate Program Coordinator at the Faculty of Engineering and served as Head of the Department of Electrical Engineering and Computer Science from 2004 to 2006.



Dr. Samir Abu Mdallalah

Holds a Ph.D. in Economics from the University of Sudan for Science and Technology. Presented many economic, political and social papers in numerous conferences. Published many papers in scientific journals and is an economic and political analyst for numerous local radio stations and Arab satellite channels.



Dr. Khaled Susi

Holds a PhD in Physical Chemistry from Ein Shams University-Egypt, and Al Aqsa University-Gaza in 2001. He is largely active in the area of research and has several published researches in Chemistry. He supervised and evaluated several Masters dissertations.



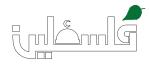
Dr. Aboud Oishawi

Received the degree of Assistant Professor in 1994 from the Biology Department of Paul Sabatier University-Toulouse, France. He served as the Research Unit Director at the Directorate General for Biological Environment and Marine Resources Protection in the Ministry of Agriculture in Gaza.



Dr. Omar Farawneh

Holds a PhD in Physiology from the University of Leeds in Britain. Several of his scientific researches are published in a number of scientific magazines. He currently occupies the position of Deputy Dean of Medicine, and Chairman of Physiology Department in the Islamic University-Gaza.



Media Sponsor (Palestine Satellite Channel)

The Palestine Public Broadcasting Commission (PBC) is the fruit of the development of the Palestinian media that started to emerge in the beginnings of the last century. Palestinian media was reinforced by the establishment of "This is Jerusalem Radio" in 1936 which became the second Arab radio station. Later, however, several radio stations in addition to other forms of Palestinian media, were established for the Palestinian revolution .abroad. In 1994 the "Palestine TV station" and the "Voice of Palestine" were launched from the Palestinian land Palestine Broadcasting Channel is the image and voice of all Palestinians everywhere they exist, whether in Palestine or in the Diaspora. It is the means that channels their pain and expresses their aspirations in freedom, independence, development, prosperity, and a democratic country that upholds the dignity of its people and pushes them to develop their potential and live in peace, security and harmony with their neighbors.



Radio Media Sponsor (Ajyal Radio Network)

Ajyal Radio Network consist of three radios that broadcast from Palestine, Ajyal Radio 103.4 FM, Angham Radio 92.3 FM, and Tarab Radio 103.8 FM which use 17 radio waves (8 waves for Ajyal, 8 waves for Angham, and one for Tarab). The network uses modern communication technologies to reach all users of such technologies around the world like its official website www.arn.ps and facebook page www.facebook.com/ajyal.fm and through the first Palestinian application of the kind on smart phones like iPhone, iPad, iPod, and Blackberry. This way, the networks reaches the world easily and users can listen to any of the network's radios with one click. Ajyal Network uses modern broadcasting technologies and its staff is comprised of some of the best in Palestine in the field of radio broadcasting to level up and compete with other radios in the Arab region and in the world.

According to surveys conducted by Alfa, Awrad, and Jerusalem Media and Communications centers, over 2 million listeners listen to Ajyal Radio Network.

Universities & Educational Instantiations

- Al Quds Open University
- Islamic University-Gaza
- University College of Applied Science-Gaza
- Al Azhar University-Gaza
- · Al Quds University-Jerusalem
- An Najah National University-Nablus

- Birzeit University-Ramallah
- Hebron University-Hebron
- · Arab American University-Jenin
- Palestine Polytechnic University-Hebron
- Palestine Technical Univesity-Tulkarem
- · Palestine Ahliya University-Bethlehem

