

# **SRI GOWTHAMI**

## **COLLEGE OF EDUCATION**

(Recognised by NCTE, Govt of Andhra Pradesh)

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**COLLEGE OF EDUCATION**

*Affiliated to*

**ACHARYA NAGARJUNA UNIVERSITY**

**2015 - 2017**

*Semester I*

Name : Sarita Sahu

Subject : Activities of Biological Science

Roll No : \_\_\_\_\_

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## CERTIFICATE

This is to certify that Mr. Mrs. Kum. Savitri Sahay,  
Class No. .... Regd. No. V16ED90039 of College of Education  
visited our Institution and conducted the required activities / collected the required  
data regarding to.....  
Practicum as a part of B.Ed. Course work stipulated by the Government of Andhra  
Pradesh and approved by Acharya Nagarjuna University.

Signature of the Concerned Teacher

Name :

Signature of the Head of the Institution

Name :

Seal :

This is to certify that Mr. Mrs. Kum. Savitri Sahay,  
Class No. .... Regd. No. V16ED90039 has completed the  
required activities regarding to.....  
Practicum towards fulfillment of B.Ed. Course work stipulated by the Government  
of Andhra Pradesh and approved by Acharya Nagarjuna University.

*[Signature]*  
This record is correct.  
Lecturer  
Sri Gowthami College of Education  
DARSi, Prakasam Dt. A.P.

*[Signature]*  
Lecturer  
Lecturer-in-charge  
Sri Gowthami College of Education  
College of Education  
DARSi, Prakasam Dt. A.P.

Contributions of any one Biologist.

- ① Charles Darwin
- ② William Harvey
- ③ Robert Hooke
- ④ Louise Pasteur
- ⑤ Alexander Fleming

### ALEXANDER FLEMING

Alexander the great - King (356 BCE - 323 BCE)

Alexander the great served as king of Macedonia from 336 to 323 BC. During his time of leadership, he united Greece, reestablished the Corinthian League and conquered the Persian Empire.

Synopsis:-

Conqueror and King of Macedonia. Alexander the Great was born on July 20, 356 BC in Pella, Macedonia. During his leadership from 336 to 323 BC he united the Greek city-states and led the Corinthian League. He also became the King of Persia, Babylon and Asia and created Macedonian colonies in the region.

while considering the conquests of Carthage and Rome, Alexander died of malaria in Babylon [now Iraq], on June 13 323 BC

### Louis Pasteur

Louis Pasteur is a chemist, scientist, inventor [1822-1895]

Scientist Louis Pasteur came up with the food preparing process known as pasteurization. He also developed a vaccination for anthrax and rabies.

#### Synopsis:-

Born on December 27, 1822, in Dole, France, Louis-Pasteur discovered that microbes were responsible for souring alcohol and came up with a process of pasteurization. Where bacteria is destroyed by heating beverages and then allowing them to cool. His work in germ theory also led him and his team to create vaccinations for anthrax and rabies.

## Early life:-

French chemist and microbiologist Louis Pasteur was born December 27, 1822, in Dole, located in the Jura region of France. He grew up in the town of Arbois and his father, Jean-Joseph Pasteur, was a tanner and a sergeant major decorated with the Legion of Honor during the Napoleonic wars. An average student Pasteur was skilled at drawing and painting. He earned his bachelor of arts degree [1840] and bachelor of science degree [1842] at the Royal College of Besançon and a doctorate [1847] from the Ecole Normale in Paris.

Pasteur then spent several years researching and teaching at Dijon Lycee. In 1848, he became a professor of chemistry at the University of Strasbourg, where he met Marie Laurent, the daughter of the University's rector. They wed on May 29, 1849, and had five children though only two survived childhood.

## First Major Contribution in Chemistry -

In 1849, Louis Pasteur was attempting to resolve a problem concerning the nature of tartaric acid. A chemical found in the sediments of fermenting wine scientists were using the rotation of polarized light as a means for studying crystals. When polarized light is passed through a solution of dissolved tartaric acid, the angle of the plane of light is rotated. Pasteur observed that another compound called paratartaric acid, also found in wine sediments, had the same composition as tartaric acid.

Most scientists assumed the two compounds were identical. However, Pasteur observed that paratartaric acid did not rotate plane-polarized light. He deduced that although the two compounds had the same chemical composition, they must have different structures.

Looking at the partartaric acid under a microscope, Pasteur observed there were two different types of tiny crystals. When polarized light as a means for studying crystals. When polarized light as a means for studying crystals, when polarized light is passed through a solution of dissolved tartaric acid, the angle of the plane of light is rotated. Pasteur observed that another compound called paratartaric acid, also found in the sediments, had the same composition as tartaric acid. Most scientists assumed the two compounds were identical. However Pasteur observed that paratartaric acid did not rotate plane polarized light. He deduced that although the two compounds had the same chemical composition, they must somehow have different structures.

Looking at the partartaric acid under a microscope. Pasteur observed there were two different types of tiny crystals. Though they looked almost identical, the two were actually mirror images of each other. He separated the two types of crystals into two piles and made a solution of each. When polarized light was passed

through each he discovered that both solutions rotated but in opposite directions. When the two crystals were together in the solution, rotated. The effect of polarized light was cancelled. This experiment established that just studying the composition is not enough to understand how a chemical behaves. The structure and shape is also important led to the field of stereochemistry.

### Commercial Success

In 1854, Pasteur was appointed professor of chemistry and dean of the science faculty at the University of Lille. There, he worked on finding solutions to the problems with the manufacture of alcoholic drinks. Working with the germ theory, which Pasteur did not invent but further developed through experiments, and eventually convinced most of Europe of its truth, demonstrated with that organisms such as bacteria were responsible for souring beer and even milk. He then invented a process where bacteria could be removed by boiling and then

cooling liquid. He completed the first test on APRIL 20, 1862. Today the process is known as pasteurization.

Shiftig focus, in 1865, Pasteur helped save the milk industry. He proved that microbes were attacking healthy milk when eggs, causing an unknown disease and that the disease could be eliminated if the microbes were eliminated. He eventually developed a method to prevent their contamination and it was soon used by silk producers throughout the world.

Pasteur's first vaccine discovery was in 1879, with a disease called chicken cholera. After accidentally exposing chickens to the attenuated form of a culture, he demonstrated that they became resistant to the actual virus. Pasteur went on to extend his germ theory to develop cures and vaccinations for disease such as anthrax, cholera, TB and smallpox.

In 1873 Pasteur was elected as an associate member of the Academie de Medecine. In 1882, the year of his acceptance into the Academie Francaise, he decided to focus his efforts on the problem of

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rabies, on July 6 1885, Pasteur vaccinated Joseph Meister, a 9-year-old boy who had been bitten by a rabid dog. The success of Pasteur's vaccine brought him immediate fame. This began an international fund raising campaign to build the Pasteur Institute in Paris, which was inaugurated on November 14, 1888.

### Personal life

Pasteur had been partially paralyzed since 1868, due to a severe brain stroke, but he was able to continue his research. He celebrated his 70th birthday at the Sorbonne, which was attended by several prominent scientists, including British surgeon Joseph Lister. At that time his paralysis worsened, and he died on September 28, 1895, Pasteur's remains were transferred to a Neo-Byzantine crypt at the Pasteur Institute in 1896.

## II. Organize an Event

1. Earth DAY
2. Environmental DAY
3. Population DAY

### Earth DAY

Earth day is an annual event celebrated on April 22, on which day events worldwide are held to demonstrate support for environmental protection. It was first celebrated in 1970, and is now coordinated globally by the Earthday Network and celebrated in more than 102 countries each year.

In 1969 at a UNESCO conference in San Francisco, peace activist John McConnell proposed a day to honor the Earth and the concept of peace, to first be celebrated on March 21, 1970, the first day of spring in the northern hemisphere. This day of nature's equipoise was later sanctioned in a proclamation written by McConnell and signed by Secretary General U Thant at the United Nations.

A month later a senator Gaylord Nelson as an environmental teach in first held on April 22, 1970. Nelson was later awarded the Presidential Medal of Freedom Award in recognition of his work while this APRIL 22 Earth Day was founded on the United States, an organization launched by Denis Hayes, who was the original national coordinator in 1970, took it international in 1990 and organised events in 141 nations. Numerous communities celebrate Earth Week, an entire week of activities focused on environmental issues.



Earth Day Flag created by John McConnell

## Earth Day 1970

The first Earth day family had participants and celebrants in two thousand colleges and universities roughly ten thousand primary and secondary schools, and hundreds of communities across the united states. More importantly, it brought 20 million Americans out onto the spring 8th where ~~for peaceful~~ demonstrators in favor of environmental reform.

⇒ It now is observed in 192 countries and coordinated by the non profit Earth Day network chaired by the first Earth Day 1970 organizer Denis Hayes according to whom Earth Day is now "the largest secular holiday in the world, celebrated by more than a billion people everyday year. Environmental groups have sought to make Earth Day into a day of action which changes human behavior and promotes policy changes."

## New York City

In the center of 1969-1970, a group of students met at Columbia University to hear Denis Hayes talk about his plan for Earth Day. Among the group were Fredkent Pete Grannis, Kristin and William Hubbard. This New York group agreed to head up the New York City part of the National movement. Fredkent took the lead in renting an office and recruiting volunteers. The big break came when Mayor Lindsay agreed to shutdown Fifth Avenue for the event. A giant cheer went up in the office on that day. According to Kristin Hubbard [now Kristin Alexander] from that time on we used Mayor Lindsay's offices and even his staff - I was speaker co-ordinator but had tremendous help from Lindsay staffer Judith Crichton.

In addition to shutting down Fifth Avenue, Mayor John Lindsey made Central Park

available for Earth Day.

The crowd was estimated as more than one million - by far the largest in the nation since Manhattan was also the home of NBC, CBS, ABC, The New York Times, Time, and Newsweek. It provided the best possible anchor for national coverage from their reporters throughout the country.

### Philadelphia

U.S. Senator Edmund Muskie was the keynote speaker on Earth Day in Fairmount Park in Philadelphia other notable attendees included consumer protection activist and presidential candidate Ralph Nader and designer

Architect Ian McHarg.

Architect Ian McHarg, Harvard Biochemist George Wald, U.S. Senate Minority Leader Hugh Scott, and poet Allen Ginsberg photos, video, and other previously unpublished information are available to the public at Earth Week 1970.

## Earth Day 1990

Mobilizing 200 million people in 141 countries and lifting the status of environmental issues onto the world stage. Earth Day activities in 1990 gave a huge boost to recycling efforts worldwide and have the way for the 1992 United Nations Earth Summit in Rio de Janeiro. Unlike the first Earth day in 1970, this 20th anniversary was armed with stronger marketing tools, greater access to television and radio and multimedia-dollar budgets.

Two separate groups formed to sponsor Earth day events in 1990. The Earth Day 20 foundation, assembled by Edward Flann [Project Director of Earth Week in 1970] and Earth Day 1990 assembled by Denis Hayes [National Coordinator for Earth Day 1970]. Senator Gaylord Nelson, the original founder of Earth Day, was honorary chairman for both groups. The two did not combine forces over disagreements about leadership of combined organization.

Incompatible structures and strategies among the disagreements, key Earth Day 20 Foundation organizers were critical of Earth Day 1990 for including on their board Hewlett-Packard, a company that at the time was the second biggest emitter of chlorofluorocarbon in Silicon Valley and refused to switch to alternative solvents.

- In terms of marketing, Earth Day 20 had a grass roots approach to organizing and relied largely on locally based groups like the National Toxics campaign, a Boston-based coalition of 1,000 local groups concerned with industrial pollution. Earth Day 1990 employed strategies including focus group testing, direct mail fund raising and email marketing.



The official logo of the Mount  
Everest Earth Day 20 International  
Peace Climb

Warner Bros. records released an Earth day themed single in 1990 entitled "Tomorrow's World", written by Kix Brooks [who would later become one-half of Brooks and Dunn] and Pam Tillis.

→ The song featured vocals from Lynn Anderson, Batch Baker, Shane Barmbay, Billy Hill, Suzy Bogguss, Kix Brooks, T. Graham Brown, The Burch sisters, Holly Dunn, Foster & Lloyd, Vince Gill, William Lee Golden, Highday 101, Shelby Lynne, Johnny Rodriguez, Dan Seals,

des Taylor, Pam Tillis, Mac Wiseman and Kevin Welch. It charted at number 74 on the Hot country songs chart dated May 5, 1990.

### Earth Day 2000

Earth Day 2000 combined the ambitious spirit of the first Day with international grass roots activism of Earth Day 1990. This was the first year that Earthday used the Internet as its principal organizing tool and it proved invaluable nationally and internationally. Kelly Evans, a professional political organizer, served as executive director of the 2000 campaign. The event ultimately enlisted more than 5000 environmental groups outside the United States, reaching hundreds of millions of people in a record 183 countries. Leonardo DiCaprio was the official host for the event, and about 400,000 participants stood in the cold rain during the course of the day.

## Subsequent Earth Day Events

- To turn Earth Day into a sustainable annual event rather than one that occurred every 10 years.
- Nelson and Bruce Anderson, New Hampshire's lead organizer in 1990, formed Earth Day USA
- Building on the momentum created by thousand of community organizes around the world
- Earth day USA co-ordinated the next five Earthday celebrations through 1995, including the launch of EarthDay org.
- Following the 25th Anniversary in 1995, the coordination baton was handed to Earth DAY Network.

Earth Day 2007 was one of the largest Earth Days to date, with many people participating in the activities in thousands of places including Kiev, Ukraine, Caracas, Venezuela, Tuvalu, Manila, Philippines, Togo, Madrid, Spain, London and New York.

## The Earth Day name

According to Nelson the moniker "Earth Day" was an obvious and logical name "suggested by a number of people" in the fall of 1969, including he writes both "a friend of mine who had been in the field of public relations" and "a New York advertising executive."

"Julian Koenig"

Koenig, who had been on Nelson's organizing Committee in 1969, has said that the idea came to him by the coincidence of his birthday with the day selected, April 22. "Earth Day" rhyming with "birthday", the connection seemed natural.

Other names circulated during preparations - Nelson himself continues to call it the National Environment Teach In, but national coordinator Denis Hayes used the term Earth Day in his communications and press coverage of the event was "practically unanimous". Its use of "Earth Day" stuck. (The introduction of the name "Earth Day" was also claimed by John McConnell [see Equinox Earthday below])

## History of the Equinox Earth Day [March-20]

The equinoctial Earth Day is celebrated on the March equinox [around March 20] to mark the precise moment of astronomical spring in the Northern Hemisphere, and of astronomical autumn in the Southern Hemisphere. An equinox is astronomical autumn in the southern Hemisphere when the sun is directly above the Earth equator, occurring around March 20 and September 23 each year. In most cultures the equinoxes and solstices are considered to start or separate the seasons.

John McConnell first introduced the idea of a global holiday called "Earth Day" at the 1969 UNESCO conference on the environment. The first Earth day proclamation was issued by San Francisco Mayor Joseph Aloto on March 21, 1970. Celebrations were held in various cities, such as San Francisco and in Davis, California with a multi-day street party. UN Secretary-General U Thant supported McConnell's global initiative.

to celebrate this annual event, and on February 26, 1971 he signed a proclamation to that effect, saying

May there be only peaceful and cheerful Earth Day with similar to come for our beautiful spaceship Earth as it continues to spin and circle in frigid space with its warm and fragile cargo of animate life

United Nations secretary-general Kurt Waldheim observed Earth Day with similar ceremonies on the March equinox in 1972 and the United Nations Earth Day ceremony has continued each year since on the day of the March equinox [The United Nations also works with organizers of the April 22 global event]. Margaret Mead added her support for the equinox Earth Day and in 1978 declared

→ "Earthday is the first holyday which transcends all national borders, yet preserves all geographical integrities, span mountains and oceans and time belts and yet bring people all over the world into one resonating accord is devoted to the preservation of the harmony in nature and yet draws upon the triumphs of technology the measurement of time, and instantaneous communication through space

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Earth Day draws on astronomical phenomena in a new way - which is also the most ancient way - by using the Vernal Equinox the time when the sun crosses the equator making the length of night and day equal in all parts of the Earth.

→ To this point in the annual calendar, EARTH DAY attaches no local or divisive set of symbols, no statement of the truth or superiority of one way of life over another. But the selection of the March Equinox makes planetary observance of a shared event possible and a flag which shows the Earth as seen from space, appropriate

April 22 observances

Growing eco-activism before Earth Day 1970

In 1968, Miltan Helbert and the U.S. Public Health Service organized the Human Ecology Symposium, an environmental conference for students to hear from scientists about the effects of environmental degradation on human health

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This was the beginning of Earth Day. For the next two years, Hilbert and students worked to plan the first Earth Day. In APRIL 1970 along with a federal proclamation from U.S. Sen Gaylord Nelson the first Earth Day was held.

Project Survival, an early environmental-awareness education event, was held at Northwestern University on January 23 1970. This was the first of several events held at university campuses across the United States in the lead-up to the first Earth Day. Also, Ralph Nader began talking about the importance of ecology in 1970.

The 1960s had been a very dynamic period for ecology in the U.S. pre-1960 grass roots activism against DDT in Nassau country, New York, had inspired Rachel Carson to write her bestseller, silent spring [1962].

### Earth Day Anthems

#### Earth Anthem [Abbey K]

There are many songs that are performed on Earth Day, that generally fall into two categories popular songs by contemporary artists not specific to Earth Day that are under copyright or new lyrics.

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Regent school Abuja, Euro school, Kathmandu, Loreto Day school Kolkata Assam Valley school among others. It is supported by global organization Habitat for Humanity.

Bollywood actress Manisha Koirala and singer neer Ani Choying Drolma have advocated in official Earth Anthem and appreciated the work being done by poet-diplomat Abhay K towards called multi-language lyrics extremely inspiring.

### Earth Day Anthem [William Wallace]

The "ode to joy" melody by Beethoven, the official anthem of European also is performed as the Earth day lyrics for the Earth DAY Anthem set to

"ode to joy" are as follows.

Joyful joyful we adore our Earth in all its

Majestic wonderment.

Simple gifts of nature that all join into a paradise

Now we must resolve to protect her

Show her our love throughout all time

With our gentle hand and touch

We make our home a newborn world

New we must resolve to protect her.

Show her our love throughout all time.

With our gentle hand and touch.

We make our home a newborn world

## World Environment Day

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World Environment Day [WED]: - WED is celebrated every year on 5<sup>th</sup> June to raise global awareness to take positive environmental action to protect Nature and the planet Earth. It is run by the United Nations Environment programme [UNEP]

### History

It was established by the United Nations General Assembly in 1972 on the day that United Nations conference on the Human Environment began.

### Celebrity endorsements:-

On occasion of world Environment Day June 5, 2015, Prime Minister of India Narendra Modi planted a sapling at his official residence at 7, Race course Road, New Delhi.

Media and celebrities have encouraged World Environment Day celebrations by endorsing and participating in it. United Nations Environment programme [UNEP] good will ambassadors including supermodel Gisele Bundchen are sending an SOS to the world to take action for cleaner Environment Day 2014 by

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joining one of their teams to combat climate change. Their call to action, Message in the Bottle, asks individuals around the world to join one of the celebrities teams and make a difference by pledging to take action to support of World Environmental Day, which culminates globally on 5 June 2014.

### Media campaigns

Community Radio Station (CRS) in all over Nepal Republic launches the campaign. All the National TV & Radio Breaking are replaced by Environment slogans and informations. Nepal Government launches various programs in collaboration with UNESCO. It also sends the Gurkha Army out of barracks on the road to clean the environment and for afforestation programmes where all the media personalities also gathers giving the live coverage.

Zee news launched 'my Earth, my duty' campaign. This campaign has entered the limca book of records for a novel effort, for planting more than 7,30,000 trees in one singleday across 34 cities and 2,50,000 villages on 25 August 2010.

NDTV launched "Greenathon" campaign

This campaign<sup>2</sup> was launched in the year 2008 and served as India's first ever nation wide campaign to save the environment.

### Children's Efforts

In Nepal Republic all the students from Grade 1 to A level are compulsory to attend the afforestation programmes on their respective locality with supervision of sas villages and Nepal government declares the many arts and drawing competitions are held on environmental day and Nepal government declares the scholarship for 15 students from all cities that have major contribution for the environment mainly selected from Madhesi, a backward community in Nepal. In 2012, project Earth, an online Eco platform teamed up with Rio+20 and launched

World Environment Day Global school contest 2012 to promote awareness among today's youth. Every country had a winner. Project Green Oman the winner from Oman, was an Eco organization founded by Hridith Suder and is a full-fledged kid's Eco organization now.

Event associated with world Environment Day

Eco Action Day is celebrated since 2007 in Singapore to inspire individuals to reduce energy use at the workplace.

World Environment Day Anthem

On the occasion of the World Environment Day in June 2013, "Earth Anthem" by poet-diplomat Abhay K was launched at a function organized by Indian Council of Cultural Relations in New Delhi by Kapil Sibal and Shashi Tharoor Union Ministers of India. It is eight languages including all official languages of the United Nations which are Arabic, Chinese, English, French, Russian, Spanish. The other two languages are Hindi and Nepali.

Themes:-

Like slogans, every event has a theme. Here are the themes of the celebration of the years from 2007 - 2016.

2016 : - The theme for 2016 is on Illegal Trade in Wildlife.

2015 : - The theme for 2015 was 'Seven Billion Dreams, one planet, consume with care.'

2014 : - Theme - small Islands and climate change

Slogan : - ~~Raise your voice. Not the sea level!~~

2013 : - The 2013 theme for World Environment Day was think, Eat, Save.

The campaign addressed the huge annual wastage and losses in food, which, if conserved, would release a large quantity of food as well as reduce the overall carbon footprint. The campaign aimed to bring about awareness in countries with lifestyles reviving in food wastage. It also aimed to empower people to make informed choices about the food they eat so as to reduce the overall ecological impact due to the worldwide production of food.

2012 :- The theme for the 2012 world environment day was Green Economy: Does it include you?

The theme aimed to invite people to examine their activities the lifestyle and see how the concept of a "green Economy" fits into it. The host country for the year's celebration was Brazil.

2011 :- The theme for 2011 was ~~Nature at your service~~. Thousands of activities were organized worldwide, with beach clean-up, concerts, exhibits, film festivals, community events and much more. This year's global host: India is a country of wide biodiversity.

2010 :- Many species, one planet - One Future was the theme of 2010

In celebrated the diversity of life on Earth as part of the 2010 International Year of Biodiversity. It was hosted in Rwanda. Thousands of activities were organized world wide, with beach cleanups, concerts, exhibits, film festivals. Community events and much more. Each continent [except Antarctica] had a "regional host city": the UN chose Pittsburgh, Pennsylvania as the host for all North.

2009 - The theme for WED 2009 was 'our planet needs you - Unite to combat climate change' and Michael Jackson's 'Earth Song' was declared 'World Environment Day Song'. It was hosted in Mexico.

2008 - The host for World Environment Day 2008 was New Zealand, with the main international celebrations scheduled for Wellington. The slogan for 2008 was 'CO<sub>2</sub>, Kick the Habit! Towards a low carbon Economy'. New Zealand was one of the first countries to pledge to achieve carbon neutrality, and will also focus on forest management as a tool for reducing greenhouse gases. Activities based around the event have been planned in the Wellington region between 28 May and 13 June.

Volunteers appeared around the Auckland region in New Zealand on World Environment Day 2008. These volunteers were located primarily at major transport hubs [such as train stations] world environment day, as well as handing out eco-friendly products such as eco-friendly light-bulbs and eco-environment Day.

as well as handing out eco-friendly products friendly shopping bags. Volunteers at public transport hubs also handed out stickers with the slogan I'm reducing my carbon footprint. World Environment Day Thursday 5 June 2008 as well as providing free to public transport users.

The Chicago Botanic Garden served as the North American host for World Environment Day on 5 June 2008. The daylong celebration featured activities for everyone in the family along with presentations by local and national organizations in the areas of food, shelter, energy, education, transportation and public awareness.

A relatively new way of making environmental causes popular is through online games.

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This trend has gained popularity in recent time, an online game by an independent publisher was launched for WED 2008 with this year's theme "CO<sub>2</sub> Kick the Habit! Towards a low carbon Economy", the game was called carbon chamber ([HTTP://flippixel.com/games/wed1](http://flippixel.com/games/wed1)) and can be played for free at this link.

Similar environmental issue related and conservation themed games can be found at [clean up the world. org](http://www.gamesforchange.org) and games for Change.org [[HTTP://www.gamesforchange.org/](http://www.gamesforchange.org/)] This ecosystem is home to one-third of the world people who are more vulnerable members of society. The main international celebrations of the World Environment Day 2006 were held in Algeria.

~~2005~~ The theme for the 2005 world Environment Day was "green cities" and the slogan was "plan for the planet"

Today the majority of the world's people live in cities. Recognizing this historic moment - Mayor Gavin Newsom has invited mayors from around the globe to San Francisco for United Nations World Environment Day to forge a collective path towards a sustainable urban future.

Mayors are emerging as the most powerful and flexible agents of change. They are able to respond quickly to environmental issues and are uniquely accountable to their citizens. Their enormous purchasing power is shaping markets and making environmental sustainability a manufacturing consideration.

They are tackling the globe's most challenging environmental issues and their visionary solutions provide inspiration and serve as models to all sectors of society.

Sri Gowthami Lecture  
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