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29.01.2024

Launch of SWATI Portal developed and hosted by NIPGR, New Delhi - reg.

Tue, Jan 23, 2024 at 2:27 PM

Manju Sharma <manjuvps@gmail.com>
To: vc@du.ac.in
Cc: Archana Pant <nasiscienceandsociety@gmail.com>

Ps madam

Dear Prof. Singh,

The Inter Academy Panel (IAP) on Women in STEMM (Science, Technology, Engineering, Mathematics & Medicine) is a joint Panel of three Science Academies viz. IASc, NASI & INSA. The Panel has taken an initiative for developing a Science for Women-A Technology & Innovation (SWATI) Portal (a database for WiSTEMM) developed, hosted and maintained by National Institute of Plant Genome Research (NIPGR), New Delhi; details attached herewith (Annexure-1).

We are happy to inform that the IAP has decided to launch this portal by organizing a one-day event on **11th February, 2024 on the occasion of International Day of Women and Girls in Science at Indian National Science Academy (INSA), New Delhi**. A tentative copy of the programme is enclosed for your information and reference (Annexure-2).

On behalf of the IAP, I am writing this to cordially invite you and your colleagues, faculty members and students to join this event. I am sure they will benefit from it and enjoy the event.

Kindly confirm your participation at the earliest.

The link is being generated and will be sent shortly by Ms. Archana Pant, NASI.

Best regards
Manju Sharma

Dr.(Mrs.) Manju Sharma
Former Secretary to the Govt. of India
Department of Biotechnology
Chairman New Initiative, NASI, Allahabad
Residence:
B-9 Extn. House No. - 6476(FF),
Vasant Kunj, New Delhi - 110070
INDIA
Phone No.: +91-11-261346 08 (R)

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30/01/2024

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31/1/24

Signature
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2.11.24

of the Registrar
K. Retimshi
30/1/24
J.R. Acad

Telefax: + 91-11- 40003/22 (K)

Mobile: 09810702411

E.mail: manjuvps@gmail.com

2 attachments



Annexure-1- About SWATI.pdf

802K



Annexure-2 -Programme Schedule.pdf

276K



Launch of 'SWATI'
Science for Women-A Technology & Innovation Portal

*Initiative of Inter Academy Panel (IAP) on Women in Science, Technology, Engineering,
Mathematics & Medicine (STEMM)
Developed, hosted and maintained by DBT-National Institute of Plant Genome Research, Delhi*

Date: Feb 11, 2024 (Sunday)
Venue: Indian National Science Academy, New Delhi

Programme

Inaugural Session
(9:30 -11:30 am)

Opening Remarks : Dr. Manju Sharma
& Genesis of the IAP : Former Secretary to the Govt. of India, DBT
(9:30-9:40) : Founder Chairman, IAP on Women in STEMM

About SWATI : Dr. Subhra Chakraborty
(9:40-9:50) : Director, NIPGR, New Delhi

Remarks by the IAP Members:
(9:50-10:05) - Prof. Shobhona Sharma, TIFR, Mumbai - Incumbent Chair
- Prof. Rohini Godbole, IISc, Bangalore - Senior Member
- Dr. Renu Swarup, Former Secretary, DBT, Gol - Member

Special Comments : Prof. Chandrima Shaha
(10:05-10:15) : Immediate Past President, INSA;
: Former Director, NII, New Delhi

Brief address by: :Prof. Balram Bhargava - NASI, Prayagraj
the Presidents of :Prof. Ashutosh Sharma - INSA, New Delhi
the three Academies :Prof. Umesh Waghmare - IASc, Bengaluru
(10:15-10:30)

Keynote Address: : Dr. Abdool Karim, President, TWAS, South Africa
(10:30-10:50)

Address by the Guest of Honour: Principal Scientific Advisor, Govt. of India
(10:50-11:05)

Launch of the Portal & Inaugural Address: Chief Guest - Minister, Science &
(11:05-11:15) Technology, Gol

Felicitation of Some :Dr. Niraj Kumar, ES, NASI
Guests/Members
(11:15-11:25)

Vote of thanks: : Dr. Sabhyata Bhatia,
(11:25-11:30) : Scientist, NIPGR, New Delhi

National Anthem

Tea Break (11:30 am - 12:00 noon)

Session-2 (12:00 - 1:00 pm)
Women Leaders in Science

Chairperson : Prof. Jaya Tyagi, AIIMS, New Delhi
Co-chair : Dr. Subhra Chakraborty, Director, NIPGR, New Delhi

Speakers

(12:00-12:15 pm) : Dr. Soumya Swaminathan
Former DG, ICMR & Chief Scientist, WHO
Chairperson, M S Swaminathan Research Foundation (MSSRF)

(12:15-12:30 pm) : Prof. Sanghmitra Bandyopadhyay
Director, ISI, Kolkata

(12:30-12:45 pm) : Dr. Tessy Thomas
DG Aeronautics; Director, Agni IV Mission

(12:45-1:00 pm) : Dr. Nigar Shaji
Project Director for Aditya- L1

Session-3 (1:00 - 1:45 pm)
Entrepreneurship Development towards Atmanirbhar Bharat

Chairperson : Dr. Renu Swarup, Former Secretary, DBT, Gol
Co-chair : Prof. Paramjit Khurana, DU, South Campus

Speakers

(1:00-1:15 pm) : Dr. Purnima Sharma
Managing Director, BCIL, New Delhi

(1:15-1:30 pm) : Dr. K. Rajeshwari
Founder & Managing Director, Bioklone Biotech Pvt. Ltd., Chennai

(1:30-1:45 pm) : Ms. Deepanwita Chattopadhyay
Chairman and CEO, IKP Knowledge Park, Hyderabad

Lunch Break (1:45 - 2:45 pm)

Session-4 (2:45 - 3:30 pm)

Sharing the Entrepreneurial Journey by Young Women Entrepreneurs

Chairperson : Dr. Alka Sharma
Advisor, DBT, Govt. of India

Co-chair : Prof. Pratibha Jolly
Former Principal,
Miranda House, University of Delhi

- Dr. Kavitha Iyer Rodrigues, Chief Executive Officer, Zumutor Biologicals, Bengaluru
- Dr. Ezhil Subbian, Chief Executive Officer, String Bio Pvt. Ltd., Bengaluru
- Dr. Renuka Diwan, Chief Executive Officer, Bio-Prime AgriSolutions Pvt. Ltd., Pune

**Session-4 (3:30-4:15 pm)
Young Women Achievers in S&T**

Chairperson : Prof. Rohini Godbole
Co-chair : Prof. Shobhona Sharma

Speakers

(3:30-3:45 pm) : Dr. Aditi Sen De
Prof 'H', Harish-Chandra Research Institute, Prayagraj

(3:45-4:00 pm) : Dr. Bushra Ateeq
Professor & Joy-Gill Chair Senior Fellow,
DBT-Wellcome Trust India Alliance, IIT-K, Kanpur

(4:00-4:15 pm) : Dr. Jyotirmayee Dash
Senior Professor,
Indian Association for the Cultivation of Science, Kolkata

Special Lecture : Dr. Deepak Dhar
(4:15-4:45 pm) Distinguished Professor Emeritus,
Department of Physics, IISER, Pune;
NASI-Senior Scientist

Concluding Session (4:45-5:15 pm)

Chairperson : Prof. Manju Sharma
Former Secretary to the Govt. of India, DBT
Founder Chairman, IAP on Women in STEMM
Co-chair : Prof. Rohini Godbole, IISc, Bangalore

Brief remarks by the Chairmen/Co-chairs

Vote of Thanks : Ms. Archana Pant
YWS (NASI), Prayagraj

High Tea

Cultural Program

Dinner

“SWATI”

“Science for Women: A Technology and Innovation”

Launched by DBT and Currently An Inter-Academy Initiative: Developed, Hosted and Maintained by NIPGR-HRD Cell

Marking 75 years of Indian Independence, in celebration of “Azadi Ka Amrit Mahotsav”

GOAL

- ❖ Creation of a single online portal representing Indian Women and Girls in STEM
- ❖ To scale up this effort exponentially, to include each and every Indian woman in science, across all career stages and subjects, spanning both Academia and the Industry, enabling reliable and statistically significant long term research on the issue of equality, diversity and inclusivity in India.
- ❖ Inclusion of each and every Indian WiS: Across time, career stages, subjects, spanning both Academia and the Industry
- ❖ Enabling reliable and statistically significant long term research on the issue of equality, diversity and inclusivity in India
- ❖ Active search engine and searchable database (Name, Affiliation, Area of Interest)

SECTIONS INCLUDE

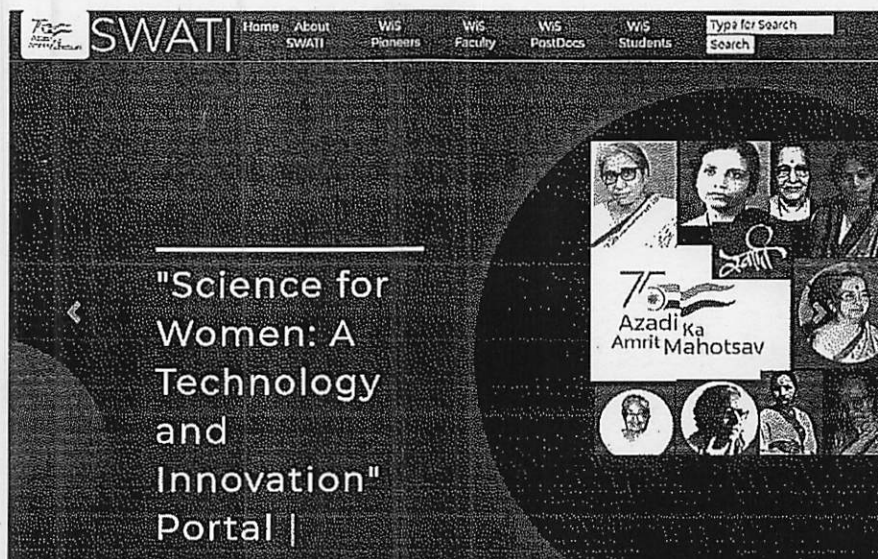
- ❖ Icons - Awardees [Padma / Shanti Swarup Bhatnagar / Stree Shakti Science Samman] & Directors, Secretaries Academy Presidents]
- ❖ Faculty - Indian Universities, Autonomous organisations including S&T Ministry/CSIR/DBT/DST/CSIR/MHRD/UGC/GATI/KIRAN
- ❖ Research fellows - Postdocs, JRFs, SRFs, technical Staff
- ❖ Students - PhD Scholars, Research Interns, Graduates, Post graduates, Undergraduates
- ❖ WiS Entrepreneurs, Start ups, Business & Science Administrators
- ❖ STEMM background professionals in alternate careers (for e.g. Science Journalism)

CURRENT STATISTICS

- ❖ 2000 'WiS Data Cards' already incorporated

“SWATI”

“Science for Women: A Technology and Innovation” Portal



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"Science for Women: A Technology and Innovation" Portal

BROWSE SWATI: INDIAN WIS PIONEERS

This section includes pioneering and iconic Indian women in Science, including Padma Awardees, presidents of academies, current and past Directors of autonomous organisations funded by the DBT, Secretaries of the DBT and DST and many others.



E. K. JANAKI AMMAL (1897-1964)

- Education: B.Sc. (1916), M.Sc. (1917)
- Expertise: Inorganic, physical and plant studies; the first Indian chemist to synthesize penicillin; first Indian to study antibiotics
- Founder Fellow of the Indian Academy of Sciences
- Winner of Padmaashil Award

E.K JANAKI AMMAL



IRAVATI KARVE (1905-1970)

- Education: Ph.D. (1931, Berlin)
- Expertise: Anthropology
- Head of the Department of Sociology and Anthropology at Deccan College.
- Writings include the highly acclaimed book 'Vijayak' which won the Sahitya Akademy Award.

IRAVATI KARVE



ANNA MANI (1918-2001)

- Education: Ph.D. (1940) IIT, London, U.K.
- Expertise: Study of radiation, ozone & atmospheric electricity etc.
- Joined the India Meteorological Department in 1946.
- Deputy Director General of

E.K JANAKI AMMAL



A. CHATTERJEE (1917-2005)

- Education: D.Sc. (1944, Calcutta)
- Expertise: Chemical Physics, Area of Interest: new and old products of a special reference to medicinal chemistry.
- Recipient of the Padma Bhushan, S.S. Bhatnagar award, C.V. Raman award of the I.C.G.C. and more.
- First lady president of the Indian Science Congress, Member of Rajya

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SWATI

Home About SWATI WIS Pioneers WIS Faculty WIS Post Docs WIS Students

Type for Search Search

This section includes faculty members and lady scientists across India, but also women performing leadership or managerial roles in administration, science funding and management.



GITANJALI YADAV

Scientist, NIPGR, New Delhi

- Education: Botany, Biomedicine, Bioinformatics
- Expertise: Data Science, Complex Networks & Machine Learning
- Currently working in the area of Food Security and Biodiversity Informatics.
- Winner of the 2021 SASTRA Obaid Siddiqi Life Science Award

Dr. Gitanjali Yadav

Dr. Gitanjali Yadav is a Scientist at NIPGR and a Lecturer at the University of Cambridge, on a Joint Deputation Program between India and the U.K. where she divides her time between India and the U.K. for teaching and research. She is an expert in Genomics and Artificial Intelligence, with applications in food security and Conservation. Dr. Yadav has received several awards, including the Hamid



MALANCHA TA

Associate Prof, IISER Kolkata

- Education: Biochemistry, Immunology
- Expertise: Human Stem Cell Biology
- Currently teaching and working on visibility, adhesion/migration of human MSCs under physiological stress conditions.
- Fugarty International Fellow

Dr. Malancha Ta

After my Ph.D, I moved to the National Institutes of Health (NIH), Bethesda, USA to do my post doctoral studies under the supervision of Dr. Nadya Lumelsky, NIDDK and worked on expansion of pancreatic progenitor/stem cells from adult mouse pancreas. My second postdoctoral training was on making pancreas specific knockout of GDF11 and studying its role in pancreas development under the guidance of Dr.

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CURRENT DATA

Sections

- ❖ **Pioneering Women** - Awardees [Padma / Shanti Swarup Bhatnagar / Stree Shakti Science Samman] & Directors, Secretaries Academy Presidents]
- ❖ **Faculty**-Indian Universities, Autonomous organisations including S&T Ministry/ CSIR/ DBT/ DST/ CSIR/ MHRD/ UGC/GATI/ KIRAN
- ❖ **Research Fellows** - Postdocs, JRFs, SRFs, technical Staff
- ❖ **Students** - PhD Scholars, Research Interns, Graduates, Post graduates, Undergraduates
- ❖ **WIS Entrepreneurs, Business & Science Administrators**

Current Statistics: 2000 'WIS Data Cards' Ready by March 2023

Major Challenge:

- ❖ Adding More WIS Data – NEED TO REPRESENT PAN INDIA
- ❖ **Getting Data: 5000 requests sent; < 1500 responses received**
- ❖ **Quantity >250 unable to load on current portal – COMPLETE REDESIGN REQUIRED; SELF REGISTRATION**

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“Science for Women: A Technology and Innovation” Portal

+ HOW TO JOIN/ ADD DATA TO THE PORTAL: GOOGLE FORM

AKAM INDIA@75; SWATI FORM

Please fill this form yourself to enable accuracy of data for the SWATI (“Science for Women: A Technology and Innovation” Portal). Please share link to other Women in your organization. Who Can Fill This Form: All Indian Women/Girls in Science.

The name and photo associated with your Google account will be recorded when you upload files and submit this form. *Required

Email*

Full Name*

Gender* (If Not Female, the form will close at this stage itself)

Organization*

Full name of organization without commas and address

Department (if any)

Location*

Name of city/town your organization is located in

Current Position*

Currently working as:

Scientist/Faculty

Post Doctoral Researcher

Project Staff

PhD Scholar

Student

Science administrator or communicator

Entrepreneur

Other:

Graduation Subject – Year – University/College*

Post Graduation (if applicable) – Subject-Year-Affiliation

Ph.D (if applicable) – Year and Affiliation

Significant Achievements / Awards / Contributions (250 Words Max)*

Short Biography with prior work experience, areas of interest, if any (Please do not include information provided in earlier sections) (250 Words Max)*

Your Current (Primary) Role*

Research

Teaching

Science Administration

Outreach

Science Communication

Other:

High Resolution Photograph (Front Facing, white background preferably)*
Images allowed – 10Mb Max size

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Home About SWATI WIS Pioneers WIS Faculty WIS PostDocs WIS Students

Type for Search

Search

This section includes post doctoral women researchers across India, but also women working as staff members and research fellows in independent or collaboratively funded projects.

<div style="text-align: center;"> </div> <p style="text-align: center;">TARANG KHADELWAL Ph.D. Student, IIT Delhi</p> <ul style="list-style-type: none"> ◆ Expertise: Microbial Immunology ◆ Currently working on TRPA1 channels as a potential source of potential ligands for infectious disease ◆ Excellent poster award at ACELCOM, Chandigarh <p style="text-align: center;">TARANG</p>	<div style="text-align: center;"> </div> <p style="text-align: center;">CHARANPREET KAUR WIFA Fellow at IIT Delhi, New Delhi</p> <ul style="list-style-type: none"> ◆ Educational background: B.Sc. Botany, M.Sc. Botany, Ph.D. Botany ◆ Expertise: Microbial Immunology ◆ Currently exploring the role of Thymidine family in stress Physiology of rice ◆ WIFA 2016 Young Scientist Award by IITR 2016 <p style="text-align: center;">CHARANPREET KAUR</p>
<div style="text-align: center;"> </div> <p style="text-align: center;">ARCHANA PRASAD WIFA Fellow, IIT Delhi</p> <ul style="list-style-type: none"> ◆ Expertise: Microbial Immunology ◆ Expertise: Microbiology ◆ Currently working on TRPA1 channels as a potential source of potential ligands for infectious disease ◆ WIFA 2016 Young Scientist Award (WIFA-4) <p style="text-align: center;">ARCHANA PRASAD</p>	<div style="text-align: center;"> </div> <p style="text-align: center;">ARITREYEE DATTA Ph.D. Student, IIT Delhi</p> <ul style="list-style-type: none"> ◆ Educational background: B.Sc. Botany, M.Sc. Botany, Ph.D. Botany ◆ Expertise: Microbial Immunology ◆ Currently exploring the role of Thymidine family in stress Physiology of rice ◆ WIFA 2016 Young Scientist Award (WIFA-4) <p style="text-align: center;">ARITREYEE DATTA</p>

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Home About SWATI WIS Pioneers WIS Faculty WIS PostDocs WIS Students

Type for Search

Search

This section includes women and girl students in various laboratories funded by the DBT, including Ph.D. students, JRFs, SRFs and undergraduate intern students in variously funded projects.

<div style="text-align: center;"> </div> <p style="text-align: center;">HARSHA ROHIRA Ph.D. Student, IIT Delhi</p> <ul style="list-style-type: none"> ◆ Educational background: B.Sc. Botany, M.Sc. Botany, Ph.D. Botany ◆ Expertise: Fungal Keratitis and Keratoconus ◆ Currently working on peptide mediated therapeutics for ocular diseases. ◆ Team mentor, OSDD, CSIR project, during Graduation <p style="text-align: center;">Harsha Rohira</p> <p style="font-size: small;">I am a full time Ph.D scholar working in the area of peptide mediated therapeutics for ocular diseases. My core area of research is in Fungal Keratitis and Keratoconus. In post graduation, I have worked on antimicrobial as well as genetic homogeneity aspects of <i>Mentha sp.</i> plants grown in different plant tissue culture media. During my graduation, I worked with OSDD, CSIR in their international</p>	<div style="text-align: center;"> </div> <p style="text-align: center;">GARGI VATS Ph.D. Student, IIT Delhi</p> <ul style="list-style-type: none"> ◆ Educational background: B.Sc. Botany, M.Sc. Botany, Ph.D. Botany ◆ Expertise: Biodiversity Conservation ◆ Currently working on Biodiversity conservation and study of Indigenous communities. ◆ UGC Fellowship, 2019 <p style="text-align: center;">Gargi Vats</p> <p style="font-size: small;">I've done undergraduate innovation research project on food toxicity then in masters I did internship in Maharashtra on landuse pattern of animals like golden jackal and Indian fox, under Dr. Sumit Dookia (internal guide) and Dr. Abi Tamim Vanak, ATREE, Bangalore. Then I did my 6 months dissertation under Dr. Sumit Dookia (internal guide), Dr. Abi Tamim Vanak, ATREE, Bangalore and Dr. Shomen</p>
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“SWATI”

SCALE UP: 2023 - 2024

MECHANISMS FOR

- ❖ Complete Portal Redesign *
- ❖ Complete the list of organizations to reach out*
- ❖ Updation of forms (Joining, updation, Interaction, Interest in mentoring etc.)*
- ❖ Browsing and Searching by Name / Affiliation / Expertise/ Career stage / Mentorship / Keywords*
- ❖ External Links to National / International Fora for WIS*
- ❖ Contacts LinkedIn IDs Creation of a single online portal representing Indian Women and Girls in STEMM*
- ❖ Testing of integration between back end database and front end webpage portal*
- ❖ Updation / Addition of Information via Indian Organisations annually
- ❖ Automated Data Incorporation/ updation by WIS themselves / Inclusion of Expert Advise by Academy Panel
- ❖ Women working outside India and interested in engaging with the Indian STEMM community
- ❖ Linkages to National and International portals having similar activities
- ❖ Links to IAP and all academies.
- ❖ Complete Interactive Database

TIME LINE

- ❖ Second Phase [Marked as * above] to complete within 9-12 months [Women's Day 2024]
- ❖ Third Phase [Rest of the work].to complete by 2024 and hand over to NASI and Mirror Site to be continued at NIPGR

PLANNED ACTIVITIES

- ❖ Conference and Workshops (Mentoring, Opportunities, Career planning, Alternate careers, Career breaks, Legal matters, Leadership, Management, Your Story: career, work-life balance, Gender issues etc.)
- ❖ Enabling reliable and statistically significant long term research on the Issue of equality, diversity and inclusivity in India

FUNDING SUPPORT

- ❖ **Manpower** – 02 Technical Officer, 07 Trainees (already working and taken care by NIPGR)
In the process of appointing: 01 WEB DESIGNER [PROJECT SCIENTIST C] by NIPGR
- ❖ **Software** Licenses for Web design, Social Media Boosts, Travel, A/V Communication (Taken care by NIPGR)

TO BE FUNDED

- ❖ **Manpower** - 01 WEB DESIGNER for Front end [PROJECT SCIENTIST C]
01 RELATIONAL DATABASE MANAGER [PROJECT SCIENTIST D]
01 BACK END JAVASCRIPT INTEGRATOR for deployment [PROJECT SCIENTIST D]
01 CURATOR
01 DATA ENTRY OPERATOR
- ❖ **RDBMS MANAGEMENT** Software License for live page