

RISFree m 2022

International Conference on

ROLE OF INDIAN SCIENCE IN FREEDOM MOVEMENT

28th February and 1st March 2022



JNU



Vijnana Bharati



NIScPR



Vigyan Prasar

RISFreM-2022: International Conference on Role of Indian Science in Freedom Movement

Details of Events & Technical Sessions and ZOOM IDs & Passwords for Each Sessions:

Events	Date	Time	Zoom Id	Password
Inaugural Session	28/02/2022	10:00-11:30am	86510694684	248406
Plenary Session	28/02/2022	12:00-01:30pm	86510694684	248406
Plenary Session	01/03/2022	11:30-01:00pm	86510694684	248406
Panel Discussion	01/03/2022	02:00-03:30pm	86510694684	248406
Valedictory	01/03/2022	04:00-05:30pm	86510694684	248406
Technical Session	Date	Time	Zoom ID	Password
I	28/02/2022	02:30-04:00pm	86510694684	248406
II	28/02/2022	02:30-04:00pm	89537541006	225072
III	28/02/2022	02:30-04:00pm	4893127318	CSSP2022
IV	28/02/2022	02:30-04:00pm	3854279825	cssp1234
V	28/02/2022	04:30-06:00pm	86510694684	248406
VI	28/02/2022	04:30-06:00pm	89537541006	225072
VII	28/02/2022	04:30-06:00pm	4893127318	CSSP2022
VIII	28/02/2022	04:30-06:00pm	3854279825	cssp1234
IX	01/03/2022	09:30-11:00am	4893127318	CSSP2022
X	01/03/2022	09:30-11:00am	89537541006	225072
XI	01/03/2022	09:30-11:00am	86510694684	248406
XII	01/03/2022	09:30-11:00am	3854279825	cssp1234



International Conference on “ Role of Indian Science in Freedom Movement”

(RISFrem-2022)

Inaugural Session: 28th Feb 2022 Time: 10:00 -11:30 AM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Welcome Address	Prof Kaushal Kumar Sharma, Dean School of Social Science, JNU
Introduction	Prof Madhav Govind, Chairperson, CSSP, JNU
Chair of Session	Prof. Pramod Kumar Jain Director, Indian Institute of Technology, BHU
Chief Guest	Prof Shekhar C. Mande, DG and Secretary, CSIR
Key Note speaker	Dr Ranjana Aggarwal, Director, CSIR- NIScPR
Vote of Thanks	Prof. Manish Kumar Kashyap, SPS, JNU
Anchoring of session	Dr Anshu Joshi, School of International Studies, JNU

RSVP: Prof Madhav Govind

Mobile: 9868732956,Email:mgovind11@gmail.com

Technical Support: Shubh Gupta

Rapporteur: Sabareesh P.



International Conference on “ Role of Indian Science in Freedom Movement”
(RISFrem-2022)

Inaugural Session: 28th Feb 2022 Time: 10:00 -11:30 AM

Plenary Session -1 : Science as a hegemonic tool for colonialism

Date: 28th February,2022.

Time: 12:00 -1:30 PM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of Session	Prof. S. K. Tomar, VC , J.P. Bose University, Faridabad,
Key Note speaker	Prof. M.D. Srinivas, Chairman, Centre for Policy Studies, Chennai
Key Note Speaker	Prof Ruchir Gupta, School of Engineering, JNU
Vote of Thanks	Prof Ruby Mishra, Delhi University
Anchoring of session	Dr Anamika, CSSP, JNU

Technical Support:.. **Shubh Gupta**

Rapporteur: Sabareesh P



International Conference on “ Role of Indian Science in Freedom Movement”

(RISFrem-2022)

Inaugural Session: 28th Feb 2022 Time: 10:00 -11:30 AM

Plenary Session -2 : National Resurgence: Role of Indian Scientists in Freedom Movement

Date: 1st March ,2022.

Time: 11:30 -1:00 PM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of Session	Prof Tankeshwar Kumar, Vice Chancellor, Central University, Haryana
Key Note speaker	Prof B. N. Jagtap, IIT, Mumbai
Key Note Speaker	Prof Madhav Govind, CSSP, JNU
Vote of Thanks	Dr Rajeev Singh Delhi Universtiy
Anchoring of session	Dr Reeta Sony, A L CSSP, JNU

Technical Support: Nabil Ahamad

Rapporteur: Amol Nerkar



International Conference on “ Role of Indian Science in Freedom Movement”

(RISFrem-2022)

(28th Feb & 1st March, 2022)

Panel Discussion

Science and Nation Building: Past, Present and Future

Date: 1st March ,2022.

Time: 2:00 -3:30 PM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of Session	Prof Binod Kanaujia, Director, NIIT, Jalandhar, Punjab
Moderator	Dr. Nakul Prashar, Director, Vigyan Prashar
Panel Speaker:	Prof V.V. Krishna, Professorial Fellow, FASS, University of New South Wales, Sydney, Australia
Panel Speaker:	Prof Rana Pratap Singh, Chairman, Special Centre for System Medicine, JNU
Panel speaker:	Prof, Sambit Mallick, IIT , Guwahati
Panel Speaker:	Dr. Subhashis Sahoo. University of Allahabad
Panel Speaker:	Mr Sabareesh P. CSSP, JNU
Vote of Thanks	Prof. Aditya Gupta, Delhi University
Anchoring of the session	Prof Madhav Govind

Technical Session: Rajiv Mishra/Sidharth Dangi

Rapporteur: Prem Chand Yadav, Sidharth Jain



International Conference on “ Role of Indian Science in Freedom Movement”

(RISFrem-2022)

(28th Feb & 1st March, 2022)

Valedictory Session:

Date: 1st March ,2022.

Time: 4:00 -5:30 PM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of Session	Prof. Santishree Dhulipudi Pandit, Honourable Vice Chancellor, JNU
Chief Guest	
Presentation of Report	Prof Madhav Govind, CSSP JNU
Validictory Address	Shri Jayanta Sahartrabudhe Ji, Organising Secretary, Vijanaa Bharati
Vote of Thanks	Prof. Rajiv Sejaria, Atal Bihar Vajpai School of Management, JNU
Anchoring of Session	Dr Anshu Joshi, SIS, JNU

Technical Coordinator: **Shubh Gupta**

Rapporteur: Prem Chand

RISFrem2022

Thematic Session 1: **Science and Freedom Movement**

Date: 28-2-2022

Time: 2:30-4:00 PM

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of the session: Prof. Arvind Kumar, SIS,JNU

Sr. No	Title of Paper	Author's Name	Presentation
1	Advancement of Scientific Stipulation during the Crown Rule in India [P85]	Raj Kumar	
2	Colonialism's Impact on Indian Society: A Critical Study [P74]	Abishek Muthu M	
3	Untold Story of Freedom Fighters of Britishers' Faith [P48]	Varghese Manoj	
4	Overview of Colonial Unresponsiveness for Survival of Indigenous Science from Growth Perspective of Basic Sciences in Pre-Independent India [P28]	Bibhuti Narayan Biswal	
5	Scientific Development in Freedom Movement: Alterity of Gandhian, Swadeshi and Nehruvian Economics [P18 & P87]	Abhishek Tripathi	
6	Shaping Scientific Agricultural Knowledge in Colonial Bihar: A Review of the Hindi Magazine, Kisan (1933-1940) [P23]	Aakhya Isha	

Technical Support: Sidharth Dangi **Mobile number:**7838 082 554

Rapporteur: Deeksha Gangawar

RISFrem2022

Session 2: Establishing Colonial Hegemony through Science

Date: 28-2-2022

Time: 2:30-4:00 PM

Zoom Link:

Zoom ID: 895 3745 1006

Password: 2250 72

Chair of the session: Dr Rajbeer Singh, CSSP, JNU

Sr. No	Title of Paper	Author's Name	Presentation
1	Colonial Hegemony Through 'Science' in India: A Critical Discourse Analysis [P51 & P86]	Kajal, Rashmi Pal and Sunita Singh	
2	Colonial Pasts and Alienation of Malabar Muslims; An Enquiry into the Participation of Muslim Community in Science Education [P16]	Mohammed Ashir and Javead Ahmed	
3	Establishing Colonial Hegemony Through Science: A Study of British India and Robinson's Mars Trilogy [P53]	Aditya Raj and Stuti Prasad	
4	Science as a Tool for Subjugation: An Analysis of British Rule in India from 1835 to 1935 [P60]	Madhav Govind & Nikhil Yadav	
5	Recapitulating Colonial Ordnance Industry in India [P44]	Shreya Singh	
6	Science for Freedom: Exploring Scientists' Role in the Freedom Struggle [P55]	Satvir Singh	

- **Technical Support:** Raghvendra Yadav, Mobile Number: 8130 5090 19
- **Rapporteur:** Rubina Akhtar

RISFrem2022

Theme 3: **Role of Indian Scientists and Resurgence of Indian Ethos and Culture**

Date: 28-2-2022

Time: 2:30-4:00 PM

Zoom Link:

ID: 489 312 7318

Password:CSSP2022

Chair of the session: Dr Y. Madhavi, CSIR-NIScPR, New Delhi

Sr. No	Title of Paper	Author's name	Presentation
1	A Study of Interlacing Connection Between the Indian Culture and Manifestation in Science Education to Make Prior Achievements of Indian Scientists: Special Reference to 'Lilavati's Daughters: The Women Scientists of India' [P1] & [P79]	Ruchi Singh	
2	BHU as Scientific Institution: Protagonist Mahamana Pt. Madan Mohan Malaviya [P50]	Sunita Singh, Rashmi Pal & Kajal Verma	
3	Indian Women in Sciences during Colonial rule: A tribute to Anandibai Gopalrao Joshi [P49]	Shreya Malik	
4	Janaki Ammal: The Pioneering Woman Botanist of India [P27]	Abha Pandey & Rajeshwar P. Sinha	
5	Mathematical Luminaries of Pre-Independent India [P58]	Kumar Gandharv Mishra	
6	Technical Education for Nation Building: Mahamana Pandit Madan Mohan Malaviya Thoughts on Technical Education and Applied Sciences at Banaras Hindu University (1916-1947) [P39]	Ritesh Gupta	

- **Technical Support:** Nabil Ahmad
- **Rapporteur:** Sudhakar Upadhayaya

Mobile Number: 9452392855

RISFrem2022

Theme 4: **Intellectual Colonialism and Freedom Movement**

Date: 28-2-2022

Time: 2:30-4:00 PM

Zoom Link:

Zoom Id: 3854 279 825

Password:cssp1234

Chair of the session: Dr Rajeev Singh, Delhi University

Sr. No	Title of Paper	Author's Name	Presentation
1	Delineating the Pathway to Intellectual Freedom of India: Borrowing the Eyes of Rabindranath Tagore and Mahatma Gandhi [P36]	Shashank Tiwari and Ajay Kumar Shah	
2	Intellectual Colonialism and Freedom Movement [P59]	Sunanda Das	
3	Intellectual Colonialism: Can One Reclaim the Right to Think in One's Native Language? [P24]	Apala Vatsa	
4	Post and Telegraph on the Eve and Aftermath of Independence [P72]	Shibani Das	
5	Role of Indian Railways and Freedom Struggle Movement [P13]	Rajni Gupta	
6	Various Perspectives of Intellectual Colonialism Policy in India [P84 & P52]	Pradeep Maurya	
7	Role of Scientific Knowledge and Intellectual Class in Freedom Struggle [P56]	Pushkar Kumar Jha	

- **Technical Support:** Prem Chand Yadav Mobile Number: 9717 57 9898
- **Rapporteur:** Raina Dua

RISFrem2022

Theme 5: **Swadeshi Industries in Colonial Time-1**

Zoom Link:

ID: 865 1069 4684

Password: 248406

Chair of the session: Dr. Reeta Sony A L, CSSP, JNU

Date: 28-2-2022

Time: 4:30-6:00 PM

Sr. No	Title of Paper	Author's Name	Presentation
1	Acharya Prafulla Chandra Ray and Quest for Innovation and Entrepreneurship in Colonial India [P71]	Bidyarthi Dutta & Anup Kumar Das	
2	Bongo Jiboner Ongo: The Legend of Boroline and The Making of Independent India [P14]	Shriya Dasgupta	
3	Efforts of Vaidya Community of Kerala in Indian Freedom Movement: Reminiscence, Struggles, and Revitalization of Traditional Medicine [P15]	Muhammed Musthafa TV & Rishad CP	
4	History and Evolution of Indian Indigenous Industries during British Colonial Period from 1757-1947 [P02]	Bhavesh Chhipa	
5	Popularisation of Technical and Science Education during Swadeshi Movement [P09]	Nirmala Shah	
6	Swadeshi Movement: Formation of Science Based Industries [P63]	Himanki Dabral, Ramesh Kumar Singh, Anu Singh	

- **Technical Support:** Sanoj **Mobile Number:**8800258052
- **Rapporteur:** Amol Nerkar

Theme 6: **Swadeshi Industries in Colonial Time-2**

Date: 28-2-2022

Time: 4:30-6:00 PM

Zoom Link:

Zoom ID: 895 3745 1006

Password:2250 72

Chair of the session: Prof Ram Sagar Mishra, School of Physical Sciences, JNU

Sr. No.	Title of Paper	Author's name	Presentation
1	The Santali Folk Science and the Indian National Movement: A Study of Colonial Bengal [P11] & [P81]	Ashutosh Sarkar	
2	The Search of Swadeshi Nuclear Technologies in the Era of British Raj: A Forgotten Effort [P3 & P80]	Oinam Ghanashyam Khumancha & Oinam Teresa Khumancha	
3	The Urge to Establish Science Based Swadeshi Industries: Struggle and Contribution [P66]	Himanki Dabral, Ramesh Kumar Singh, Anu Singh	
4	Criminal Tribes Act and Nomads: Case of Gadia Lohar community in Rajasthan [P06]	Priyanka Choudhary	
5	Indian Traditional Medicine Industries in the Colonial Era [P54]	Abha Arya	
6	Structural Characterization and physical properties of Ash as a functional nanomaterial of Sri Athi Rudra Homa (an ancient Indian Wisdom), using Modern Scientific Tools for its Various Applications [P43]	Rakesh Kumar Singh, Prateek Harsora, Divya Kanchibhotla & Nishant Kumar	
7.	Innovations in India Pre and Post-Independence: Role of Patents [P21]	Rujitha Shenoy	

- **Technical Support:** Venkat Chaubey Mobile Number: 874500 1318
- **Rapporteur:** Nikhil Yadav

Theme 7: Achievements of Indian Scientists and its Implication for Political Freedom

Zoom Link:

ID: 489 312 7318

Password:CSSP2022

Chair of the session: Dr Saradindu Bhaduri ,CSSP ,JNU

Date: 28-2-2022

Time: 4:30-6:00 PM

Sr. No	Title of Paper	Author's Name	Presentation
1	One Hundred and Thirty Years of Physics Research in India: Historical Development with Scientometric Standpoint [P64]	Bidyarthi Dutta & Anup Kumar Das	
2	Renowned Scientist from Punjab, Ruchi Ram Sahni (1863-1948) and the Freedom Struggle [P12]	Parampreet Kaur	
3	Science and Technology, and Development of the Nationalist Sentiment: Contribution of Keshub Chandra Sen [P10]	Parikshit Thakur	
4	Science as a Tool for Liberation: Role of women Scientists [P33]	Vikram Kumar & Amrutha KV	
5	Science in Domes: Journey of Planetariums in India [P41]	Nabil Ahmad Afifi	
6	Scientific Contribution of Samanta Chandra Sekhar of Odisha: Description of Eclipses as in Siddhanta Darpan [P29] & [P82]	Susanta Barik	
7	Sister Nivedita's Role in the Making of Indian Institute of Sciences [P45]	Ruby Mishra, Kriti Virmani & Suryadev Singh	
8	The Legacy of Astronomy and Astrophysics Research in India: Historical Development with Scientometric Standpoint [P68]	Bidyarthi Dutta & Anup Kumar Das	

- **Technical Support:** Venkat Chaubey, Mobile Number: 8745001318
- **Rapporteur:** Kuldeep Minda

Theme 8: **Emergence of Scientific Racism in Indian Response**

Zoom Link:

Zoom Id: 3854 279 825

Password:cssp1234

Chair of the session: Prof Ruby Mishra, Delhi University

Date: 28-2-2022

Time: 4:30-6:00 PM

Sr. No	Title of Paper	Author's Name	Presentation
1	A Case Study of Scientific Racism in Colonial India and the Indian response [P20]	Navyodai Kanth & Chitra Rajora	
2	Indian Society and Spirit of Scientific Temperament: The Sociological Perspectives [P30]	Birendra Suna	
3	Race, Ethnicity, and Telecommunications in Britain and Its Empire, 1850-Present [P76]	Shibani Das	
4	Re-reading the Emergence of Scientific Racism in Colonial India [P69]	Teeju Bhagat	
5	Scientific Racism Faced by Indian Fingerprint Scientists during Colonial Rule: Need to Correct a Historical Wrong [P73]	G.S. Sodhi & Jasjeet Kaur	
6	Scientific Racism in Empire: A Case of "Modern Cremation" in Colonial India and South Africa [P22]	Vishwambhar Nath Prajapati	

- **Technical Support:** Sabareesh Mobile Number: 844 8777-290
- **Rapporteur:** Sanoj

Theme 9: **Impact of Colonialism on Environment and Sustainable Consumption**

Zoom Link:

ID: 489 312 7318

Password:CSSP2022

Chair of the session: Dr. Arvind Ranade, Vigyan Prasar,

Date: 1-3-2022

Time: 9:30-11:00

Sr. No	Title of Paper	Author's Name	Presentation
1	Disentangling the Coloniality of Nature and Its Hegemonic Continuation: Towards an Epistemic Re-Constitution [P67]	Amrit Raj	
2	Ecocentric Approach of Science from the Perspective of Mahatma Gandhi and Rabindranath Tagore: Exploring Sustainability and Ethics amidst British Colonialism [p4]	Sabareesh P.A. & Reeta Sony A.L.	
3	Environment Impacts of Colonialism in India [P34]	Bhupendra Pratap Singh, Ruby Mishra, Soumay Kuamri, Arathi Nair, and Sweety Kumari	
4	Imperial Consumption in Colonies and Its Challenge to Oriental Sustainable Practices: A Case Study of India [P47]	Shubh Gupta & Deeksha Gangwar	
5	The Environmental Impact of Colonial rule in India [P37]	Sanoj	
6	Weaving Together Diversity: Khadi and the Formation of Indian National Identity [P62 & P61]	Girisanker SB	
7	Unsustainable Consumption in Colonial India: A Critical Review of Environmental History	Venkat Choubey & Madhav Govind	

- **Technical Support:** Pradeep Maurya Mobile Number:8896203391
-
- **Rapporteur:** Raina Dua

Theme 10: Public Engagement for Development of Scientific Institutions and Societies

Zoom Link:

Zoom ID: 895 3745 1006

Password: 2250 72

Chair of the session: Prof Sujit Bhattacharya, CSIR-NIScPR, New Delhi

Date: 1-3-2022

Time: 9:30-11:00

Sr. No	Title of Paper	Author's Name	Presentation
1	A Journey of Contribution of CSIR from Pre-to-Post Independence [P35]	Akansha Trehan and Charu Lata	
2	Growth of Scholarly Societies and Their Activities in Pre-Independent India: A Reconnaissance [P65]	Manorama Tripathi & Anup Kumar Das	
3	Historical Discourse of Science in India: Colonial Reflections on Present Education System [P46]	Shweta Tanwar	
4	Role of Academic Institutions for Creation of Scientific Knowledge in Colonial India: A Triple Helix Model of Development [P38]	Vairaj Arjune, Krishna Tripathi, & Rajbeer Singh	
5	Role of India's Scientific Research Institutions during Freedom Movement [P32]	Mukesh Bagoria & Santosh Bharti	
6	Shaping Indian Scientific Community and Beyond: A Study of the Indian Science Congress Association during Pre-Independence Era [P17]	Sneha Sinha	
7	Understanding Public Engagement with Science in India: Case Study of British-Era Agriculture Institutions [P07]	Madhav Govind & Kuldeep Minda	

- **Technical Support:** Nikhil Yadav Mobile Number: 8558022556
- **Rapporteur:** Amol Nerkar

Theme 11: Science Diplomacy and Freedom Movement

Zoom Link:

ID: 865 1069 4684

Password: 248406

Date: 1-3-2022

Time: 9:30-11:00

Chair of the session: Dr Anshu Joshi, School of International Studies, JNU

Sr. No	Title of Paper	Author's Name	Presentation
1	Exploring the Role of Public Diplomacy in Strengthening Scientific and Technological Engagement with Colonial-Era Diaspora Communities [P42]	Vairaj Arjune & Krishna Tripathi	
2	Indian Science and Technology at the time of Independence: A 'Science Diplomacy' Perspective [P5]	Hemant Kumar	
3	Science Diplomacy and Indian Freedom Movement: A Retrospective View of Events During the 1870s - 1950s [P08]	Shreedhar Kanagarajan & Reeta Sony	
4	The 'Swa' in Science: An Insight into the Soft Power Potential of Science [P31]	Anagha Babu	
5	Super Fluidity in Physics and Science Diplomacy [P70]	Malti Goel	

- **Technical Support:** Sidharth Jain **Mobile Number:** 8861907480
- **Rapporteur:** Rubina

Thematic Session 12: Science and Freedom Movement (Hindi)

Zoom Link

Zoom Id: 3854 279 825

Password:cssp1234

Date: 1-3-2022

Time: 9:30-11:00

Chair of the session: Dr. Anamika Gulati, CSSP JNU

Sr. No	Title of Paper	Author's Name	Presentation
1	स्वतंत्रता संग्राम में विज्ञान के महत्व संबंधी जागरूकता पर एक सर्वे/ Swatantrata Sangram Mein Vigyan Ke Mahatv Sambandhi Jagrukta Par Ek Survey [P25 & P77]	Navneet Kumar Gupta	
2	औपनिवेशिक भारत में वैज्ञानिक अनुसंधान में भारतीयों का अवदान [P57]	Roshan Kumar	
3	भारतीय उपनिवेशवाद और वन संरक्षण नीतियां और प्रभाव एक अवलोकन [P83] & [P19]	Chitra Rajora & Navyodai Kanth	
4	राष्ट्रप्रेमी खगोलशास्त्री मेघनाथ साहा [P40]	Preeti Singh & Ruby Mishra	

- **Technical Support:** Nabil Ahmad **Mobile Number:** 9452392855
- **Rapporteur:** Ashutosh Srinet