

***“Research paper publish in national and international Journal By
IRRA Scientist Group”***

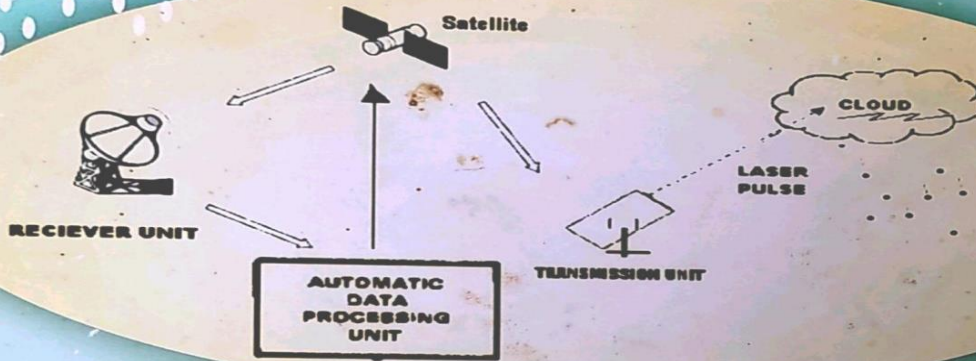
INDEX			
SR NO	PAPER TITLE & AUTHOR NAME	PUBLISHED IN JOURNAL & DISCRIPTION	YEAR OF PUBLICATION
01	<i>“Effect of endothermic reactions associated with lightning on atmospheric chemistry ” (By:--S.K.Chopkar)</i>	<i>Indian Journal of Radio & Space Physics, Vol22, April 1993 ,By:-S.k.Chopkar.</i>	1993
02	<i>“Artificial rainmaking system in a way of natural phenomena” (By S.K..Chopkar& D.k.Chakarbarty)</i>	<i>“Indian Journal of Science and Technology” (http://www.indjst.org) ,Vol.1 No 6 (Nov. 2008)</i>	2008
03	<i>“Femtosecond terawatt Laser produce artificial rain.” By:-D.K.Chakrabarty</i>	<i>Research Paper presentation in Calcutta Conference by Dr.D.k.Chakrabarty</i>	2009
04	<i>“Artificial rainmaking by Laser system” (By S.K..Chopkar& D.k.Chakarbarty)</i>	<i>The International Journal of Meteorology www.ijmet.org, Volume35, Number355, November2010</i>	2010
05	<i>“Economical and non-pollute system for artificial rainmaking by laser pulse in a way of natural phenomena” (By S.k.Chopk&S.Sonbawane)</i>	<i>Indian Journal of Innovations Dev., Vol. 1, No. 3 (Mar 2012) ,ISSN 2277 - 5390</i>	2012
06	<i>“CLOUD FORMATION & ATMOSPHERIC RAINMAKING BY ENDOTHERMIC REACTION DUE TO PLASMA LASER & UV RADIATION IN THE ATMOSPHERE” (By:-S.K.Chopkar& D.k.chakarbarty)</i>	International Journal of Information Technology and Business Management 29 th Jan 2014. Vol.21 No.1 © 2012-2014 JITBM & ARF. All rights reserved www.jitbm.com	2014
07	<i>“Condensation and Water Drops Formation due to Endothermic Reaction by Laser Pulse through Natural Lighting Phenomena in the atmosphere” (By:-S.K.Chopkar& D.k.chakarbarty)</i>	<i>International Journal of Managerial Studies and Research (IJMSR) Volume 2, Issue 10, November 2014, PP 148-155 ISSN 2349-0330 (Print) & ISSN 2349-0349 (Online) www.arcjournals.org</i>	2014
08	<i>“New Phenomena for Condensation and Water Drops Formation by Laser Pulse Due To Endothermic Reaction in the atmosphere” (By:-Shivshankar K. Chopkar1 , D.K. Chakrabarty),</i>	International Research Journal of Computer Science (IRJCS) ISSN: 2393-9842 Volume 1 Issue 2 (October 2014) www.irjcs.com	2014

09	"Artificial Rainmaking By Laser system" (By:-S.K.Chopkar)	Research Paper presentation in "International Environment conference, at Venketesh University ,tribute ,A.P. By:-S.K.Chopkar.	2016
10	Artificial Rainmaking by using high power laser initiation endothermic reaction, in a way of Natural Lightning Phenomena through Air Craft, in a large scale, in the atmosphere" (By:-S.K.Chopkar& D.k.chakarbarty)	Journal of Business Management and Economics 5: 07 July (2017).	2017
11	"Novel Technology for Artificial Rainmaking by Laser System through Air Craft in the Atmospheric Clouds Initiation Endothermic Reactions, in A Way of Natural Lightning Phenomena, in the Atmosphere" (By:-S.K.Chopkar &D.K.Chakarbarty)	"Noble International Journal of Scientific Research" ISSN(e): 2521-0246 ISSN(p): 2523-0573 Vol. 02, No. 12, pp: 90-97, 2018 Published by Noble Academic Publisher URL:http://napublisher.org/?ic=journals&id=2	2018
12	"To Create Artificial Lightning by Laser System through Air Craft in the Atmospheric Clouds Initiation Endothermic Reaction, In A Way of Natural Lightning Phenomena for Artificial Rainmaking, In the Atmosphere" (By:-S.K.Chopkar& D.k.chakarbarty)	Sumerianz Journal of Scientific Research, 2018, Vol. 1, No. 2, pp. 52-57 ISSN(e): 2617-6955, ISSN(p): 2617-765X Website: https://www.sumerianz.com © Sumerianz Publication	2018
13	"Innovative Rainmaking Technology By Laser system in the atmosphere" (By:-S.K.Chopkar)	Research paper presentation in "International Environment conference "Held by Sahara environment Group, at Dhakala,Morroco country. By :-S.K.Chopkar	2019
14	"nnovative Rainmaking Technology by Laser System Initiation Endothermic Reactions in a Way of Natural Lightning Phenomena in the Atmosphere" (By:-S.K.Chopkar& D.k.chakarbarty)	" International journal of Atmospheric and oceanic science"	2020
15	"INNOVATION RAIN ENHANCEMENT TECHNOLOGY BY LASER SYSTEM, PRACTICALLY PROVED IN LABORATORY CLOUD CHAMBER, ALSO IN THE ATMOSPHERE" (By:-S.K.Chopkar& D.k.chakarbarty)	IMPACT: International Journal of Research in Engineering & Technology ISSN (P): 2347-4599; ISSN (E): 2321-8843 Vol. 9, Issue 1, Jan 2019, 29-36 © Impact Journals	2021
16	"Innovative Rainmaking Technology by Laser System Initiation Endothermic Reactions in a Way of Natural Lightning Phenomena in the Atmosphere" (By:-S.K.Chopkar& D.k.chakarbarty)	International Journal of Economy, Energy and Environment 2021; 6(3): 67-70 http://www.sciencepublishinggroup.com/j/ijeee doi: 10.11648/j.ijeee.20210603.11 ISSN: 2575-5013 (Print); ISSN: 2575-5021 (Online)	2021

PUBLISHED BOOK DOCUMENTS

National and International Patent

Novel Technology for ArtiFicial Rainmaking by Plasma Laser Pulse in a Way of Natural Lightning Phenomena

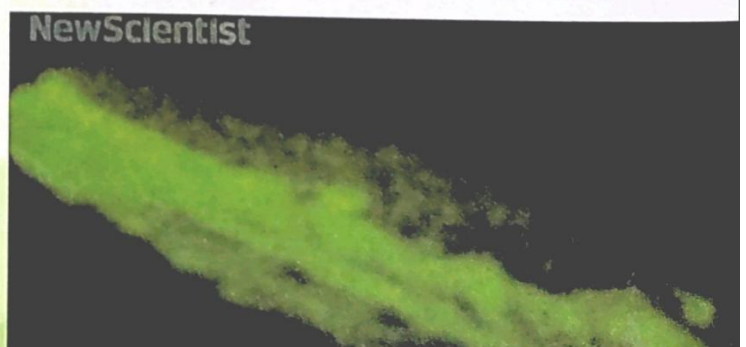
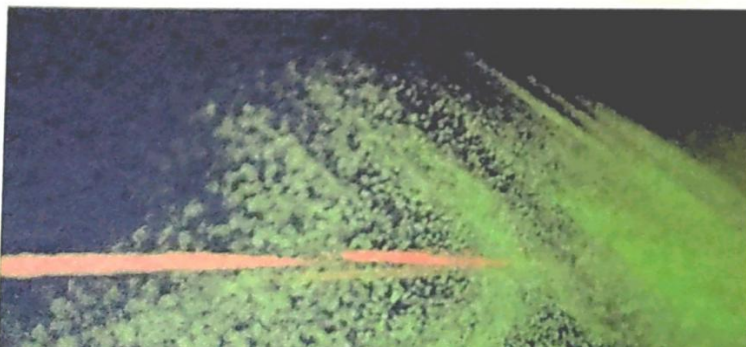
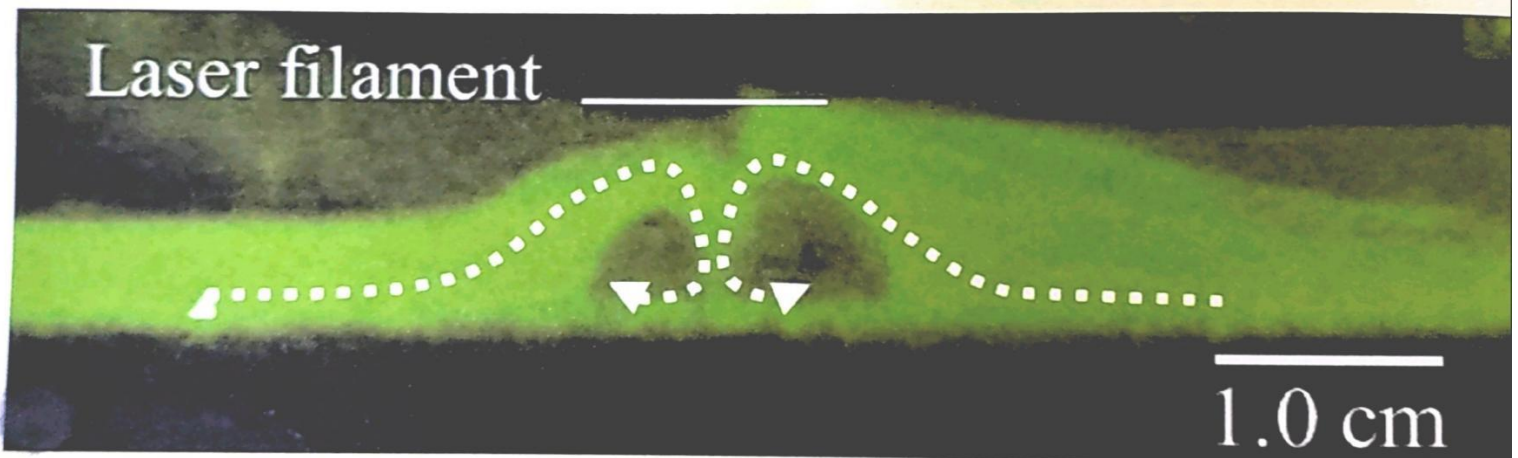


**संपूर्ण जीवसृष्टीला सुखी करण्याकरीता
कृत्रिम पावसाचा संशोधन प्रकल्प....**



**Artificial Rainmaking Research
Society Nagpur 440001**

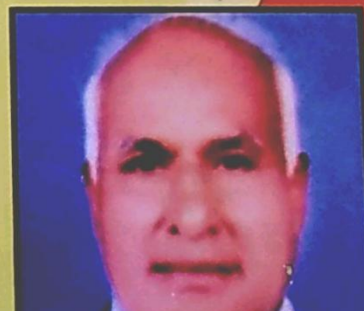
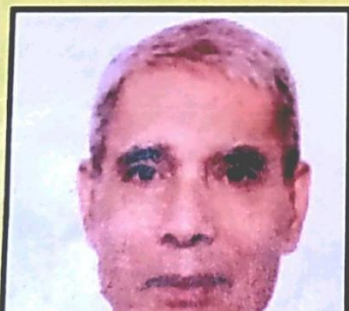
Laser Creates Water Droplets in Laboratory Scale as well as In The Atmosphere





**Demonstration for artificial rainmaking
by plasma laser pulse through drone
aircraft remote control system in the atmosphere**

***The Two Pillar of Our Artificial Rainmaking Research Society
We would like to thanks both of them on behalf of Artificial
Rainmaking Society, Nagpur for making such
a wonderful platform to works on
rainmaking By natural way in the world.***



Our Achievements

You will receive your Membership Certificate, suitable for framing, shortly after your completed Confirmation of Membership is processed. A replica (greatly reduced) of your Certificate appears below:

THE
NEW YORK
ACADEMY OF SCIENCES

PRESENTED TO

Dr. S. Chopkar

IN RECOGNITION AND CERTIFICATION OF BEING ELECTED

**AN ACTIVE MEMBER
OF THIS ACADEMY**



FOUNDED 1817

Joshua Lederberg

SECRET - TOP SECRET

**NATIONAL WORKSHOP ON ATMOSPHERIC CHEMISTRY
(NWAC-99)**

Indian Institute of Tropical Meteorology, Pune

CERTIFICATE OF PARTICIPATION

This is to certify that Dr. Shivkumar Chaptan
from ARRS, Chandrapur has participated in the "National
Workshop on Atmospheric Chemistry", held at IITM, Pune from 12
to 14 October 1999.

Am

(Dr. P.C.S. Devara)
Co-ordinator, NWAC-99

DR. P. G. S. DEVARA
Co-ordinator, NWAL-...



જોડણીએ પ્રમાણપત્ર

विशेष/प.भा./मू.भा.वि./२म.

-86-

आइये प्रमाणित किया है कि, छात्री अपने केलेली सार्वजनिक विश्वस्तुतवादा ही बार, मुंबई

राज्य-सचिव, विद्युत-संचालन विभाग, १९५० (तब १९५० या पूर्व में अविद्युत कर्मिक २१) या कर्मचारी-संघ

विष्णु - मंदिर देवी- सावंतवाडी, विष्णुसहस्रनाम देवी कनकलता देवी रीतिरि
गोवर्धन मठानी आहे

साधनविषय विवेकात्मकसाधन विषय नाम सुदामाकेनिक रचना - श्री श्रीग

रिसर्च सोसायटी चिह्न कि. चिह्न
सांख्यिक विभाग, बंगलूर, भारत (एक - ६४३२ (चिह्न))

श्री विष्णुनाथ काष्ठनाथ साधना बौद्ध प्रमाणपर विवे.

39-3-88
राजीव गांधी राष्ट्रीय निधि.
राज्य निधि

वही
 दिनांक
 पदवाचक

1910

वरुण भारत

* संस्थापक संपादक : ग. प्र. माडखोलकर *

प्रदूषणाचो पाडणी
न. टोपे उवा चंद्रपुरात

पंडित. री. जोग
(जिन्हा प्रतिनिधी) : चंद्रपूर
मध्य आणि विभागीय
प्रमुखांच्या सार्वभौम शासन
कार्यवाहीच्या दृष्ट्याचे पर्यावरण
आवडी या एकाच ठिकाणी
अभिहित होऊ शकण्याची
आशा.

[illegible]

कृत्रिम पाऊस : चिमूरचे शास्त्रज्ञ चोपकर
उद्या दरदर्शनवर माहिती देणार

पृष्ठ ३१, अंक २ (मार्च १९६३) : जय शर्मा
 श्रीम. पदम व दूर प्रसारकी शक्ति अत्यन्त ही
 शक्ति सम्पन्न प्रसारकी शक्ति अत्यन्त ही
 शक्ति सम्पन्न प्रसारकी शक्ति अत्यन्त ही



शक्ति सम्पन्न प्रसारकी शक्ति अत्यन्त ही
 शक्ति सम्पन्न प्रसारकी शक्ति अत्यन्त ही
 शक्ति सम्पन्न प्रसारकी शक्ति अत्यन्त ही

[illegible]

उमरखेड येथे
'मेहेर प्रेमी' संमेलन
जुलै २२, २३ (आठवडा वृत्ति) : अखिल
मेळवण अखिलभारतीय मेहेर प्रेमी संमेलन २८ वी
२०१६ मध्ये उमरखेड येथे प्रेमी प्रेक्षकांचे मागे
अर्ध शतक पुरातन मेळवण आयोजित आहे.
या कार्यक्रमात टी. टी. आ. गवई, (या
कारणात अखिलभारतीय मेहेर प्रेमी संमेलन
आयोजित करणारे) यांनी टी. टी. गवई, (मेहेर
आयोजकांनी घेतले) (अखिल) टी. टी. आ. गवई
(अखिल), टी. टी. गवई (मेहेर) (अखिल)
आदींनी यावेळी मेहेर प्रेमी संमेलन आयोजित
आहे.



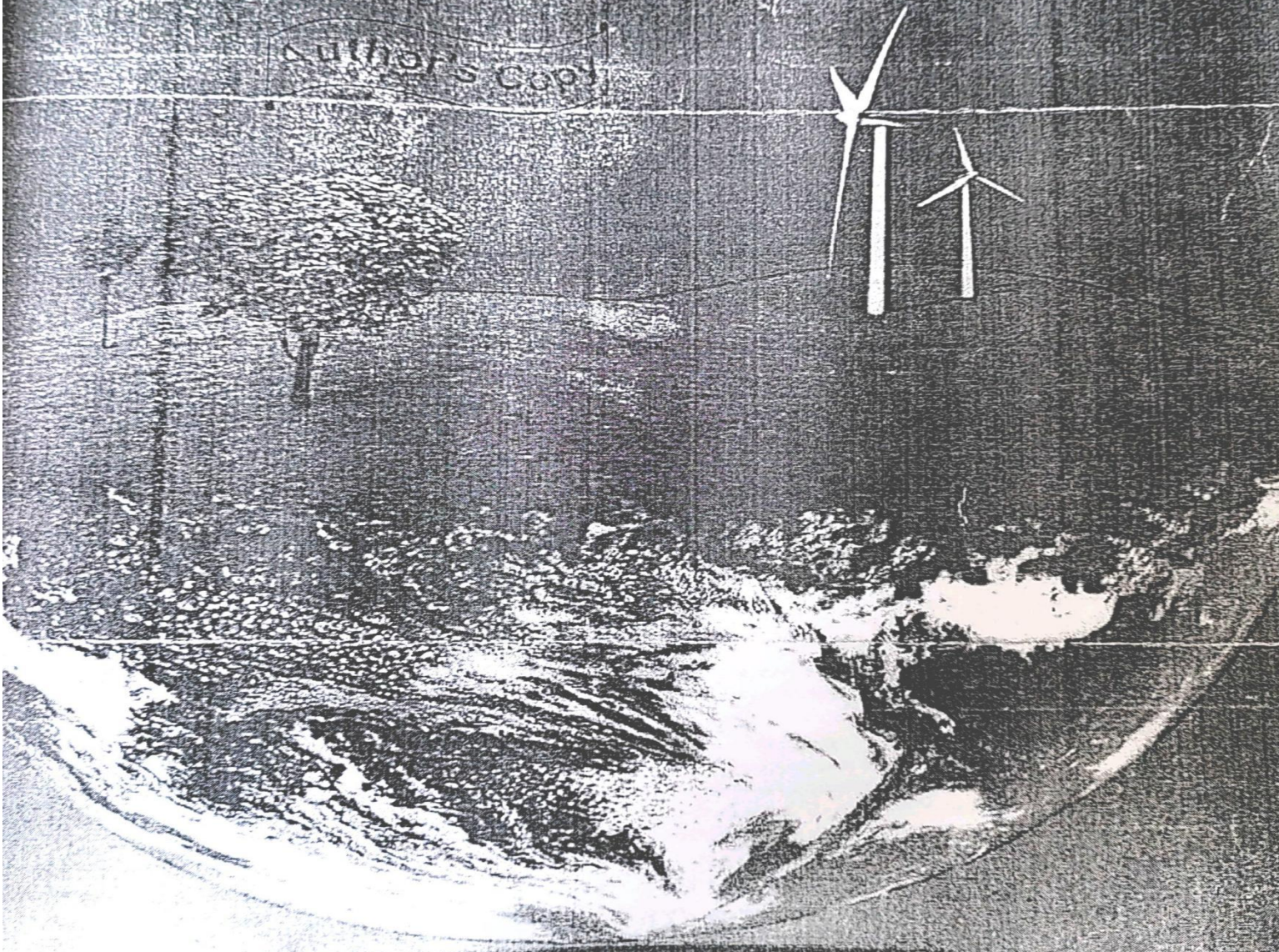
वातावरण VATAVARAN

AFAC Journal of Meteorology

2013

Volume 37, Issue 1

Author's Copy



FACULTY OF METEOROLOGY
AIR FORCE ADMINISTRATIVE COLLEGE

COIMBATORE - 641 018
TAMIL NADU, INDIA



VATAVARAN

ISSN 0970 3543

