

BIO-DATA

Name : Dr. Mitali Konwar

Date of Birth : 01/03/1966

Address : East Milan Nagar, R. C. Building, Ratanpur
Dist. – Dibrugarh – 786001 (Assam)

Educational Qualification : [M.Sc. (Phy),G.U.] [Ph.D (Physics), D.U] IDELHE (Delhi)

Profession : Principal, Digboi Mahila Mahavidyalaya,
Department of Physics, Digboi – 786171,
Dist. – Tinsukia (Assam)

Service Experience :

	Date of Effect	DPI's Appvl. No.	Date
a) Lecturer	11-01-1996	G(B)AC/53/96/252	9-12-1996
b) Senior Lecturer	14-02-2002	G(B)UGC85/89/225	15-03-2002
c) Selection grade lecturer	14-02-2007	G(B)UGC60/2010/125	03-05-2010
d) Principal	17-01-2012	AHE292/2011/7	22-12-2011

09.11.2015

Experience :

- Passed M.Sc. from Gauhati University in Physics (1989) specialized in “x-ray and crystal structure analysis”.
- Awarded Ph.D by Dibrugarh University in 2007 for the Thesis entitled “Optical and Spectroscopic studies of some medicinal plants and natural dyes”.
- Continuing Post Doctoral Work under the Guidance of Prof. G. D. Baruah, Ex Head of the Dept. of Physics, Dibrugarh University.
- Project: (i). Investigation on the Fluorescence spectrum of *Alocasia Culcullata* Schot and possible realization of chlorophyll laser.
(ii). Investigations on the modification of intensity in laser induced Fluorescence spectra of some natural dyes and chlorophyll solution, No.F.05-256/2008-

09(MRP/NERO) dt-02.03-2009.

- e) International Diploma in Educational Leadership –Higher Education award, New Delhi at International Diploma PROGRAMME IN Educational Leadership-Higher Education organized from 15th July 2012 to 30th July 2013.
- f) Visit as NAAC Peer Team Member
1. Government P.G. College, Berinag, Pithoragarh
w.e.f. 26th & 27th February'2019
 2. Edayathangudy G.S. Pillay Arts and Science College,
Ol Nagore Road, Thethi Village, Tamil Nadu
w.e.f. 22nd & 23rd March/2019
 3. Indira Priya Darshini College for Women, Jhajjar, Haryana
w.e.f. 18th & 19th April/2019

Academic Activities :

a) Papers

1. A correlation between fluorescence of chlorophyll solution in some medicinal plant leaves and absorption in liquid phase, **Advances in Applied Science Research**, 2011,2(1):230-234 ISSN ; 0976-8610
2. Fluorescence and absorption spectra of chlorophyll extract of some plant leaves and a pendulum analogy, **Journal of laser and optical science**, 2011,1(1),66-71, ISSN no. 2231-0959
3. A Study of the fluctuating patterns of Brownian motion using light scattering in some colloidal suspensions **Asian J Physics**, ISSN : 0971-3093
4. On the nature of a software to work out the intensity distribution pattern of spectral lines from spectroscopy or legacy Spectra, **Asian Journal of spectroscopy**,
5. On the nature of vibrational bands in the FTIR spectra of medicinal plant leaves, **Archivs of applied Science Research** 2011,3(1):214-221, ISSN : 0975-508x
6. Time evolution of diffusion fringes in The Christiansen effect **OPTIK International Journal for Light and Electron Optics (Elsevier Pub.)Volume 120, Issue 9, May 2009, Pages 427-430 Impact factor 4.9**

7. Important of the persistent lines at (12,7) and (11,6) first positive bands of N₂ in solid films excited by Ar⁺ Laser. **Proc. International conference on optics and optoelectronics** 12-15 dec 2005 IRDE, Dehradon
8. Time evolution of Optical Patterns at the diffusion region in the Christiansen Filter”, Mitali Konwar R. Mahanta and G.D. Baruah, Proc. **Sixth DAE-BRNS National Lager Symposium** (NLS-6) CAT, Indore, p-395-396 ((2006)
9. Laser induced fluorescence bands of Mesua ferrea – L plant leaf, emission spectrum of Mesua ferrea – L seed oil and a comparison with CN red system of bands. **Proc XXXIII Optical Society of India Symposium (OSI)**, 18-20 Dec, 2007, Tejpur University.
10. Laser induced fluorescence of Namsai meteorite, **Assian J Phys** Vol. 18 no. 1 (2009) 127-130
11. Excitation of CN red system of bands n a crude ol blaze, **Proc XXXIII Optical Society of India Symposium (OSI)**, 18-20 Dec, 2007, Tejpur University.
12. Fluorescence and absorption spectra of chlorophyll extract of some plant leaves and a pendulum analogy, **Assian J. Phys.**
13. On the nature of a herbal medicine curing kidney stone : a spectroscopic evidence, 2013, 5(6):141-144, ISSN 0975-508x, **Assian J. Phys.**
14. Evidences of self consistency of natural laws appearing laws in different domains physical science. **Indian Journal of science**, 1(1) pg-58-60 (2012), ISSN 2319-7730, EISSN 2319-7749.
15. A Co-relation between Fluorescence of Chlorophyll II Solution in Some Medicinal Plant Leaves and Absorption in Liquid Phase, **Traditional Phytotherapy** pg. 111-116, (2013) **Assian International (P) Ltd, ISBN 978-81-7035—821-3**
16. On the Nature of the Green Vegetation, **International Journal of Research Studies in Science, Engineering and Technology (IJSSET)** Volume 1, Issue 1, April 2014, pg 59-64.
18. On the nature of a herbal medicine curing kidney stone : a spectroscopic evidence, **Archives of Applied Science Research**, 2013, 5 (6):141-144 **ISSN 0975-508X**
19. A Possible Realization of Chlorophyll Laser, **Optics and Photonic Journal**, 2013, 3, 385-387, Published Online December 2013.

20. Women Empowerment through Higher Education ,Assam College Principal Council Journal , ISBN-13-978-81-924416-2-7,pg 100-104
21. On the nature of a software to work out the intensity distribution pattern of spectral lines, from legacy Spectra, **Assian J of spectroscopy**,ISSN: 09719237
22. A Correlation between the quality of tea in liquid phase and scatte, ared radiation. **Indian J Phys.** 79 (9), 1063(2005)
23. The role of diffusion on the chromatic pattern associated with the Christiansen effect. **Indian J Phys** Vol. 79 (9). 1065-1069(2005)
24. On the nature of strong fluorescence of alocasia culculata schot, **Emerging trends in laser & spectroscopy and applications**, p-357-360 ISBN, allied publishers pvt ltd.
25. The Chlorophyll Paradox, the Colour of Vegetation and Use of Imager J to Analyse Ramans Physiology of Vision, **International Journal of Engineering and Technical Research (IJETR)**, ISSN:2321-0869, Vol-2, Issue-9
26. Maxwell-Boltzman distribution patterns exhibited by dynamic interference fringes in liquid phase, **Proc. Sixth DAE-BRNS National Laser symposium (NLS-6)**. P 395-396, 2006.
27. Emission Spectrum of Crude Oil at Dikom. **Pelagia Research Library, Advance in Applied Science Research, 2011, 2 (4) : 98-101, ISBN : 0976-8610, CODEN (USA) AASRFC**
28. Higher Education and its Challenges, Assam College Principal Council Journal pg 17-19. 33 Binomial Conference, ACPC
29. Empowering Women, Swarnalim , Moran College Golden Jubilee Celebration October 2014, pg 371-376
30. Fluorescence Spetrum of Alocasia culcullata Schot and Chlorophyll Laser, **International Journal of Scientific & Engineering Research**, December – 2013, ISSN 2229-5518, Vol. 4, Issue 12, pg 2232 – 2236.
31. On the nature of Brownin movements of some medicinal plants leaves, **Proceeding of National Conference on Physical Science**, Dept. of Phys, D.H.S.K. College, Dibrugarh, pg 95-106.

32. Evidence of Self Consistency of Natural laws appearing in different domains of physical science, **Indian Journal of Science**, Volume 1, Number 1, November 2012, ISSN 2319 – 7730 EISS in 2319 – 7749, pg 58-60.
33. Domestic Violence against Women in the North Eastern States of India with Special Reference to Assam and Nagaland, Women Harassment, ISBN N0. 93 – 83580-24-8, pp 292-303.
34. Green of vegetation Spatial hole and trend in art, BIMRISHA, Golden Jubilee Celebration Committee, Moran College, pg-219-228, ISBN-978-81-928247-0-3
36. Orchid's of Arunachal Pradesh with special reference to commercial probability of Namdhapha, BIMRISHA, Golden Jubilee Celebration Committee, Moran College, pg-239-244, ISBN-978-81-928247-0-3
37. Self Help Group: A study of Grass root level success story, IJMRA, vol-4, issue-9 September 14, pg-352 362 IJPSS.
38. The Chlorophyll Paradox, the Colour of Vegetation and Use of Image J to Analyse Ramans Physiology of Vision, **International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Volume-2, Issue-9, September 2014** pg-67-71
39. Time Dependences of Random Force in Various Colloidal Suspension Exhibiting Brownian Movements in the MarkofHan Approximation **Laser and Bose-Einstein Condensation Physics**, **Norasa Publishing house** pg-129-134
40. On the nature of a herbal medicine curing kidney stone : a spectroscopic evidence, **Bulletin of Laser and Spectroscopy Society of India, ISSN – 2229-3752, No. – 20**

Academic activities :

**Various Seminar Workshop
/Training Programmes Etc. attended**

1. Sizes and characteristics of colloidal particles exhibiting Brownian movement under laser irradiation, INTERNATIONAL CONF.LASERS AND NANOMATERIALS (ICLAN), (November30-December2,2006) *Calcutta University, International.*
2. Absorption, fluorescence and FTIR spectra of fifteen medicinal plants leaves and a co-relation between characteristic features, *INDIAN SCIENCE CONGRESS,*

(98rd section -3-7 Jan)2011 (Best poster award in Physical Science), SRM University,Chennai, International.

3. On the nature of relationship between the intensity of fluorescence and absorption in a chlorophyll solution, FIRST INDO-US WORKSHOP ON SPECTROSCOPY, FUTURE TRENDS IN SPECTROSCOPY: APPLICATION TO NATIONAL SECURITY, (9th-11th Jan 2006), Banaras Hindu University Varanasi, International.

4. Investigation of time dependence random force in various colloidal suspensions exhibiting Brownian movements in the Markoffian approximation, *INDIAN SCIENCE CONGRESS*. (93rd section -3-7 Jan), Acharya N.G.Ranga Agricultural University, Hyderabad, N.G.Ranga Agricultural University, Hyderabad, International.

5. A correlation between fluorescence of Chlorophyll solution in some medicinal plant leaves and absorption in liquid phase, *INTERNATIONAL CONFERENCE ON SPECTROPHYSICS (INCONS 2005)*, February 9-12,2005, Pachaiyappa's college, Chennai, Pachaiyappa's college, Chennai, International.

6. On the nature of glazing and reflectivity of used utensils at various localities of N.E. India, Commission Seminar on Land use, Biodiversity and Climate Change. 11th-13th Dec,2010, Guwahati

7. A comparison of Laser induced Fluorescence of Namsai meteorites, Indian Science Congress(96th section, 3-7 Jan 2009) North Eastern Hill University Shillong, North Eastern Hill University Shillong, International.

8. A comparison between CN red system of bands and laser induced fluorescence bands of *mesua ferrea L* plant leaves, VTH CONFERENCE OF PHYSICAL, ACADEMY OF THE NORTH-EAST (PANE) (1st March-3rd March 2007), Gauhati University, Gauhati University, National.

9. On the nature of strong fluorescence of *alocasia culculata schot*, Maghnad Saha Memorial Symposium on Emerging trends in Laser & Spectroscopy and Applications March 23-25 Allahabad University ,Allahabad, Allahabad University, National.

10. Laser induced fluorescence bands of *Mesua ferrea- L* plant leaf, emission spectrum of *Mesua ferrea- L* seed oil and a comparison with CN red system of bands, XXXIII Optical Society of India Symposium on Optics and ptoelectronics (Dec-18-20,2007) Tezpur University, National.

11. On the nature of laser induced fluctuating pattern of colloidal suspension, NATIONAL CONFERENCE ON LASERS AND THEIR APPLICATIONS IN BASIC AND APPLIED SCIENCE, (NCLBAS-2005) (10th-13th Jan), Visva-Bharati, Santiniketan, Visva-Bharati, Santiniketan, Calcutta, National.
12. On the nature of Brownian movement of some colloidal suspensions of medicinal plants in liquid phase, Symposium on CONDENSED MATTER DAYS-2004 (*Dept. of Physics, North Eastern Hill University, Shillong-793002, Meghalaya, India, 25th – 27th Aug., 2004*). North Eastern Hill University, Shillong, National.
13. Fluorescence and absorption spectra of chlorophyll extract of some plant leaves and a pendulum analogy, National Conference on Laser and Optical Science ,11-13th Oct 2010,D.H.S.K.College ,Dibrugarh. D.H.S.K.College ,Dibrugarh. National.
14. On the nature of glazing and reflectivity of used utensils at various localities of N.E. India, National Seminar on Urban Waste Disposal and its impact on Environment and public health quest for solutions (23rd -25th Sept'2010), Sibsagar College, Joysagar, Joysagar, Assam. Dept. of Chemistry National.
15. A correlation between fluorescence of chlorophyll solution in some medicinal plant leaves and absorption in liquid phase, UGC Sponsored National Seminar on Recent Trends in Traditional Phytetherapy: Safty, Efficiency. Drugs Discovery & Priority Issues on 2nd & 3rd Dec 2010, Namrup College, National.
16. On the nature of vibrational bands in the FTIR spectra of medicinal plant leaves, National Seminar on Recent Advances in Synthesis and catalysis (RASC-11) 10th-12th February , 2011, Dibrugarh University, National.
17. On the nature of absorption spectra of five medicinal plant leaves and correlation with their characteristics. 56th Annual Technical Session, Assam Science Society 26th March 2011, Dibrugarh University, State Level.
18. On the nature of a software to work out the intensity distribution pattern of spectral lines. 9th &10th September, 2011, Sonari College, National.
19. Young's double slit experiment in the light Schrodinnger's cat and nature of photon. 58th Annual Technical Session of Assam Science Society, 8-9th March, 2013, Gauhati University, National.

20. Analysis of Young's double slit experiment in the light Schrodinnger's cat and nature of photon. 100th Indian Science Congress, 3-7 January, 2013, Calcutta University, National.
21. Silk Cultivation in North-East India with Special Reference to Assam, UGC Sponsored National Seminar, 17th & 18th August, 2013, Digboi Mahila Mahavidyalaya, Digboi,
22. National.Higher Education in North East with reference to Rashtriya Uchchatar Siksha Abhiyan (RUSA) North East College Principals' Conclave-23rd July, 2014 Org. by University of Science & Technology, Maghalaya
- 23 " Semesterization and Choice Based Credit System (CBCS) in Higher Learning Institution : In Quest of Quality Education" NAAC Sponsored Workshop IQAC, Dibrugarh University. 7&8 Feb, 2014
24. "Role of Leadership IQAC, RUSA, Semester, Credit & Grading System in Higher Education of N.E. India "Two days Principals' Meet 29th & 30th June, 2014 org. By Academic Staff College, Guwahati University .
25. " College Development- Challenged and Opportunities" UGC Sponsored National Workshop Jointly Org. by -Rangia College & Dispur College, Gauhati University
26. Strategic Thinking and Capacity Building among college Principals and Educational Ceders. Workshop International Diploma Programmed in Educational Leadership- Higher Education." Org. by- Society for Education and Economic Development, New Delhi on 19th to 22nd Dec, 2013
27. " Women's Higher Education in Assam- Problems and Solutions" National Seminar "Higher Education : Past Present and Future A Special reference to North East India" 25th & 26th Oct, 2013 Tripura University.
28. "On Processing of Bamboo Shoot and its Economic Prospects in North East Region" National Workshop Org. by – Dept of Home Science Digboi Mahila Mahavidyalaya 6th & 7th Nov, 2013.

29.” Domestic Violence against Women in the North Eastern States of India – With special reference to Assam and Nagaland” ICSSR sponsored National Seminar “Harassment on Women : Different Approaches towards women and creating a Women Friendly Environment in Society.” Org.by – Monohari Devi Kanoi Girl’s College, Dibrugarh.7th to 9th Dec, 2013.

30 “The Assamese Language in the Print Media. “UGC Sponsord National Seminar “Usage of Assamese Language in India and its Acceptability” Amguri College Dept. of Assamese 20th & 21st Sept, 2013

31 “Colour of Physical Origin in Dyed Silk” UGC sponsored National Seminar Silk cultivation in North East India with special reference to Assam. Org. by – Dept of Home Science Digboi Mahila Mahavidyalaya 17th & 18th August.2013.

32. Post Independence Scenario of Higher Education In India : Issues, Challenges and Remedies NAAC Sponsored National Seminar Org by - IQAC Sibsagar Girls College.5th & 6th Sept, 2013

33. “ Women Empowerment through self help groups”- “Innovation and changes of Socio-Economic conditions of Women with special reference to Health Consciousness in North East India” NAAC Sponsored National Seminar org.By 26th and 27th July 2013

34. “ Urban Development in North East India with special reference to solid waste management “ – Problems and Prospects. UGC sponsored National seminar Org by – MDK Girl’s College 8th and 9th Feb,2013

35. “Teaching Language Through Literature “UGC Sponsored State level 2 days Workshop 8th and 9th Feb,2013 Org. by -Digboi Mahila Mahavidyalaya 1st & 2nd Feb, 2013

36. NATIONAL SEMINAR ON IMPACT OF SENSORS IN IMPROVNG QUALITY OF TEA (10th-11th Feb2006) *Department of Physics ,Bahona College*

37. National Seminar on Environmental issues in north east India : past ,present and challenges ahead.(May10th &12th 2008) Gargaon College,Simaluguri

38. NATIONAL CONF. ON LASER AND ITS APPLICATIONS. (5th-7th Nov.)Dibrugarh University, Assam.

39. National Seminar on Strategies for knowledge and Skill Development in the present educational system: North East perspective” 22nd and 23rd Jan 2010 Dibru College,Dibrugarh
40. Centre for women’s studies National commission for women sponsored state level workshop on Gender Gap in social protection in reference to north east India. (Dec,4th to 6th,2007) org by Dibrugarh University
41. CELEBRATION OF”INTERNATIONAL YEAR OF PHYSICS-2005 (23rd-24th Sep.)Dibrugarh University, Assam
42. National Seminar on Sustainable management and conservation of Environment 3-4 June 2010,Moran College, Sibsagar
43. State level Seminar on Examination Reform & Semester system org. by Moran College Sibsagar
44. Annual technical session and student conference on science society, Sonari, Sibsagar
45. State level seminar on Music of Assam; Heritage and tradition, org. By Moran College
46. 58th Annual Conference Assam College Teachers’ Association , Duliajan College
47. North East Institute of Science & Technology (Formerly Regional Research laboratory) org. by NEIST, Jorhat
48. National Commission for Women, Govt of India sponsored Awareness Programme org by Moran College
49. National Workshop on : Preservation and Documentation of Tai Manuscript org. by Institute of Tai Studies & Research sponsored by Indian Council of Social Science Research, New Delhi, on 4-5 Dec. 2010.
- 50.Capacity Building of Women Managers in Higher Education, Sponsored by RGNIYD & Gauhati University, 12th to 18th November, 2014
51. Investigation of time dependence random force in various colloidal suspensions exhibiting Brownian movements in the Markoffian approximation, Department of Physics, Moran College, Sibsaggur, Assam, India, ISSN-0976-8610, CODEN (USA) : AASRFC, 2011.

Academic activities :

a) Intra and Inter

Educational Institution

1. Internal And External (Practical) Examiner of Assam H. S. Council.
2. Internal And External (Practical) Examiner of T. D. C. (Degree Course), Dibrugarh University.
3. As Principal, Secretary and DDO of Digboi Mahila Mahavidyalaya / Governing Body, associated with all the academic, administrative and financial matters of the institution.
4. Member in several occasion of Moran College – Governing Body, Admission Committee, A.O.C. of Examination committee, College Students union , Editorial board member of college magazine , Academic and discipline-Committee, Member. Internal Quality assessment cell, convener of Seminar “Examination Reforms and Semester System”, Member-Library advisory Committee ,blood donation cell, vocational course. Excursion tour in-charge –Darjelling

Guest Lecture :

1. **Speaker ---- North East Teachers’ Congress-2014** held at TechnoCity, Baridua, G.S. Road, 9th Mile, Ri-Bhoi on 3rd – 5th January, 2015.

Orientation Course : Orientation Course attended in Guwahati University from 18th Jan. to 14th Feb., 2002

Refresher’s Course : Refresher’s course attended in

- (i) Dibrugarh University from 6th to 26th July, 2001 at Dibrugarh.
- (ii) Dibrugarh University from 22nd Jan. to 11th Feb. 2014 at Dibrugarh.
- (iii) Tezpur University from 9th Dec. to 30th Dec. 2005 at Tezpur.

Short-term Course :

- (1) 8th Short –term course for Academic Administrators From 11th Oct’12 to 17th Oct’12, NEHU, Shillong
- (2) Workshop from 20th September – 1st October, 2014. DST Dibrugarh University

Award :

- Elected as a member of the Sectional Committee of the Section of Physical Sciences for 2007-2008(95th Indian Science Congress Association.)
- Best Poster award of Physical science of 98th Indian Science Congress at SRM University, Chennai.
- Award of Academic Excellence on the occasion of North East College Principal's Conclave-2014 on 23rd July,2014 ,University of Science & Technology Meghalaya.

Other activities :

Books, Articles Published (a) Published Books are

Editor : Daily News paper (Dainik Bhumiputra) by PP Publication, Dibrugarh,(2003-2006)(Honoury)

R.N.I. REGD.NO.ASSASS/2000/7515

Editor:Assam College Principals' Council Journal, 2013 and 2014

MORCOLTEJ – A journal of the MCTU 1st year Vol - 1

Life-Members and

Members of :

- (a) Laser and spectroscopic society of India (LASSI)
- (b) Indian Science congress (ISC).
- (c) Society for Laser and Optical Science.
- (d) Indian Red Cross Society, Moran Branch.
- (e) Assam science society
- (f) Assam College Principals' Council

Administrative

Experience : Principal, Digboi Mahila Mahavidyalaya, Digboi(17th Jan12 to till now)

Other Interest : Best Athlete nnual college week (1981-1982)D.H.S.K.College .Bihu Kuwari .Bihu Rani Dibrugarh (1984,1985)

Countries : Nepal, Franch, Bangladesh, Bhutan, Switzerland , China, England , Scotland etc.

Sd/- Dr. Mitali Konwar

Principal, Moran College