

### Detailed BIO-DATA

1. Name (Block Letters) : DR DEBIDAS MONDAL
2. Father's Name : Late Saktipada Mondal
3. Present Designation & Address : Joint Registrar  
The University of Burdwan,  
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4. Permanent Address : U7A/2 University Quarters, Udaykanan  
Burdwan-713 102, WB, INDIA
5. Date of Birth : 16.03.1963
6. Nationality : Indian  
Religion : Hinduism
7. Marital Status : Married
8. Whether SC/ST/OBC/  
Ex-serviceman : No
9. Educational Qualifications :

Name of Exam Passed	Board/Univ	Year of Passing	Div/Class	% of Marks	Subjects taken
Madhyamik	WBBSE	1978	Ist Div	66.1	Beng, Eng, Math, Sans, P Sc, LSc, Geo, Hist, WE & PE, Math(Addl)
HS(10+2)	WBCHSE	1980	2nd Div	56.9 (*)	Beng, Eng, Math, Phys, Chem, Bio(Addl)
B Sc (Hons) in Physics	Burdwan University	1983	Ist Class	60.0	Phys(Hons), Math, Chem, Beng(Com Addl)
M Sc in Physics	do	1985(**)	Ist Class	64.5	Radiophysics & Electronics (Spl), Computer Software (Elec)
Ph D in Science (Physics)	do	1992	Title :	<i>Studies on Lock-in Microwaves Discriminators</i>	

(\*) Without 4th subject; (\*\*) Exam held on 1986 & Result published on 1987 and placed 1<sup>st</sup> Class 2<sup>nd</sup> in the merit list.

## AWARDS & ACHIEVEMENTS :

- # Awarded and attended the **International** course entitled, *Course on Basic Telecommunications Science*, organised by **International Centre for Theoretical Physics (ICTP), Trieste, Italy** from January 09 to February 03, 1989.
- # Received the **International URSI Young Scientist Award** and participated in General Assembly of URSI at Prague, Czech Republic, August 28 to September 05, 1990.
- # Received the **K S Krishnan Memorial Award** for best research paper (IETE) for the year 1995.
- # Awarded **National Scholarship** during studies in Post-graduate level.
- # Elected **Life Fellow, The Institute of Electronics and Telecommunication Engineers (IETE), India**
- # Qualified the CSIR SRF and RA awards
- # Attended many National and International Seminars/Symposia.

## EXPERIENCES :

**Research** : More than **22 Years**.

- (a) Since May, 1987 to January 1989 joined as a JRF in a Department of Electronics (DoE), Govt of India supported project entitled, Analytical Studies on Frequency Stabilization and Power Combining Techniques at mm-wave and Experimental Verification at Ku-Band;
- (b) Served as a Scientific Officer up to January 1993 in a project entitled, Development of Coherent Pulsed Oscillators and Tracking Receivers at 35 GHz, financed by DoE, Govt of India;
- (c) From February, 1993 up to May, 2005 served as a Scientific Officer in the M Tech Course, Physics Department, Burdwan University, India for research and teaching purposes.

**Teaching** : More than **14 Years** (M Tech in Microwaves Students-now M Tech in Electronics & Communication Engineering (Microwaves) up to May, 2005 then as the Guest Lecturer)

### Project Works

**Supervised** : Guided the M Phil/M Tech students for their project works.  
( For details pl see list of publications as Annexure-III)

### Joint Supervisor

**(Ph D)** : Acting as Jt Supervisor for the Ph D work of Sm Keka Hajra for her thesis, ' Studies on the Integration Issues of satellite navigation systems and their Utilisations', registered on 23.03.09 at BU.

**Co-investigator** : 1. DTSR, Defence, Govt of India sponsored project, 'Optical Signal Distribution in Phased Array Antenna: Power Combining and Beam

Steering’.

2. Project ‘Active Microstrip Phased Arrays: Beam Scanning, Receiving and Antenna Remoting’, sponsored by University Grants Commission.
3. CSIR sponsored project, ‘Studies on Chaotic Oscillations in Solid State Microwave Oscillators(SSMWO) and its Applications in Chaos Based Communication Systems’, duration three years from Sept’05.
4. Submitted a project, ‘Seamless Positioning in all Direction Environment’, to DRDO, Ministry of Defense, Govt of India

**Experimental & Technical**

- : # Sound knowledge and experience on online (Computer) measurement techniques using
- i) NETWORK ANALYSER (Upto 40 GHz),
  - ii) SPECTRUM ANALYSERS (Upto 40 GHz & 20 GHz),
  - iii) MICROWAVE AMPLIFIERS,
  - iv) PULSE/CW MICROWAVE COUNTERS,
  - v) DIGITISING OSCILLOSCOPE (400 MHz)
  - vi) REAL TIME SIGNAL PROCESSING
  - vii) MICROWAVE & mm-WAVE SOURCES etc.
- # Experimental design of LOW AND HIGH SPEED (10 GHz) OPTICAL COMMUNICATION SYSTEMS, MICROWAVE-OPTICAL INTERACTIONS, MICROWAVE & mm-WAVE DETECTORS/ DEMODULATORS and ACTIVE MICROSTRIP PATCH ANTENNAS
- # Acquainted with Computer work in DOS and WINDOWS environments, languages of BASIC & QBASIC. Familiar with software packages. Have the experience of development of programmes. Also have experience in working in LAN and using computer communications and networks.
- # Have the experience of planning and monitoring research project and preparing research proposal, project reports including Technical Status & Financial Report of different research projects sponsored by GoI, like DoE (now MIT), DST, UGC (DRS & DSA), etc.

**Job Responsibilities: Up to May, 2005**

**Teaching:** Imparted theoretical and practical training to M Tech in Electronics & Communication Engineering (Microwaves) students, also to supervise seminars and project works of the students.

**Research:** Actively taken part in ongoing R&D activities (different India Govt sponsored research projects) of the laboratory.

**Administrative** : **Administrative:** Arranged training and project works of the M Tech students, administration of the different ongoing sponsored research projects of the laboratory.

**From June, 2005.**

As Deputy Registrar & Others

**From February, 2010 onwards.**

As Joint Registrar & Others

Also take part in modification and up gradation of different administrative curriculum

**FIELD OF WORKS :**

Microwave & Millimeterwave Communication Systems, Microwave-Optical Interactions, Digital Signal Processing, Optical Phase Locked Loop, Coherent Optical Communication, Active Microstrip Patch Antennas-Power Combining & Beam Steering and Optical Distribution of Microwave Signals through Phase Array Antennas.

## Particulars of Other Technical/Teaching or Administrative Experiences :

### *Responsibilities undertaken in university activities other than departmental activities:*

- From 01.09.10 to 14.09.10 served as the **Registrar** as additional duties
- From June 01, 2008 to 26.08.2011 served as the **Development Officer** as additional duties
- From 19.11.10 to 10.01.2012 served as the **Principal**, UIT, BU as in-charge
- Served as the **Director**, Directorate of Distance Education, B U as additional duties from 04-08-08 to 14-08-08
- Served as the **Director**, Directorate of Distance Education, B U as additional duties from 15-03-10 to 23-06-10
- Served as the **Guest Lecturer** different times to M Tech in ECE ( Microwaves) Course in Physics Department, B U from June, 2005
- Served as a **Resource Person** for BKC RTC conducted computer training programs
- Served as **Resource Persons** for computer training of the College Teachers at different Orientation Courses organised by the ASC, BU
- Served as **Resource Person** of the AICTE sponsored Staff Development Programme for the teachers of the University Institute of Technology (UIT), BU from June 09-21, 2003.
- Served as the **Resource Person** for D M L T Course at USIC, B U from 26-02-02 to 22-03-02
- Undertaken UG classes at University Institute of Technology (UIT), BU
- Served as **Treasurer** of IETE, Burdwan University Sub Center from 2008 onwards
- Served as the **Observer** of the WB-JEE from 2006 onwards
- Served as the **representative** of the University on the **Central Board of Worker's Education.**
- Elected **Life Fellow**, The Institute of Electronics and Telecommunication Engineers (IETE), India
- Member, UGC's Purchase Committee, Eastern Region, Kolkata

### *Contribution to academic or administrative environment:*

- Acted as a **Course Coordinator** of the Computer Training for the University staff members and DDE staff members from 01-04-07 to 06-05-07.
- Acted as a **Course Coordinator** of the Intensive Computer Training Programme on *Office Management and System Maintenance & Troubleshooting* for the University staff members as well as DDE staff members from 22-05-08 to 02-06-08.
- Acted as a **Course Coordinator** of the LAN Based Computer Training Programme on *Office Management* for the University staff members and DDE staff members from 24-08-09 to 05-09-09
- Associated with the different coordination works for various administrative works & meetings and also works related to various examination processes.
- Took part in organizing Seminars/ Symposiums in the University
- Up to May, 2005 actively engaged in Teaching, Training and Placement activities of the M Tech graduates

## Training Attended/Conducted :

- Training Attended:**
1. **Computer Training Program for the Officers** of the Burdwan University during July 16- August 25, 2001 at ASC, B U.
  2. Workshop on **“Microwave and Millimeter Wave Communications”** at Institute of Radiophysics and Electronics, C U during 22-23 March, 2001.
  3. **‘Course on Microwave, Millimeterwave & Optical Communication’** at Institute of Radiophysics & Electronics, C U during 19-26 Sept, 2001. Contn.....
  4. **“Course on Basic Telecommunications Science”,at International Centre for Theoretical Physics (ICTP), Trieste, Italy** from January 09 to February 03, 1989.
  5. **General Assembly of URSI at Prague, Czech Republic**, August 28 to September 05, 1990.
  6. Short term course at Time & Frequency Section, NPL, New Delhi about *Standard Time & Frequency Signal Dissemination via Satellite*.
  7. **Two-day Workshop for Academic Administrators**, UGC Academic Staff College, Burdwan University, Burdwan, 2 – 3 October, 2002
  8. **Six-day Workshop on Microcontrollers** conducted jointly by USIC, BU & WRIC, University of Mumbai during February 02 – 07, 2004 at USIC, BU
  9. **Five-day National Workshop on Emerging Trends in Information Technology in University Management**, organized by **Association of Indian University (AIU)**, New Delhi & West Bengal University of Technology(WBUT), Kolkata during September 04 - 08, 2006
  10. Participated in the Two-day National Seminar, ‘Total Quality Assurance in the Governance of Higher Education in India’, organised by WBUOA & VUOA at Vidyasagar University, Midnapore from Feb 13-14, 2004
  11. Participated in the National Seminar, ‘UGC-University Interface : Issues of Development’, organised by VUOA at Vidyasagar University, Midnapore March 23, 2005
  12. Participated in the Two-day National Workshop on Advanced Laser and Nanomaterials, organised by Department of Physics, University of Burdwan, Burdwa from Jan 25-27, 2005
  13. Participated in the Two-day State Level Seminar, ‘Challenges Before the University Administrators in the Present Scenario’, Organised by BUOA & IIPC, BU at Burdwan University from Jan 06-07, 2006
  14. Participated in the Two-day National Workshop on Higher Education Governance in India, Organised by CUOA at Calcutta University, Kolkata from Dec 08-09, 2007
  15. Participated in the National Seminar, ‘University Governance in 21<sup>st</sup>

Century : Challenges Ahead', Organised by WBUT & WBUOA at Kolkata on August 29, 2008

16. Attended many others National and International Seminars / Symposia/ Workshops.

**Resource Person:**

1. Acted as **resource person** and associated with the coordination works of computer training programme sponsored by UGC & India Society for Technical Education (ISTE) for the college teachers, bank and LIC employees.
2. Served as **resource person** in six UGC sponsored Computer Training Programmes for College Teachers, Principals and Officials (course duration 12 days each) and one ISTE sponsored computer course for the bank and LIC employees (Nov 01-12, 93; Nov 16-28, 93; Feb 01-12, 94; May 20- July 02, 95; Nov 18-30, 96; May 12-24, 97).
3. Acted as a **resource person** in Computer Training Program for the Officers of the Burdwan University during May 22- June 30, 2001.
4. Acted as a **resource person** in Computer Training Program for the Teachers of the Burdwan University during May 13- 31, 2002.
5. Served as **resource persons** for computer training of the College Teachers at different Orientation Courses organised by the ASC, BU.
6. Served as **resource person** of the AICTE sponsored Staff Development Programme for the teachers of the University Institute of Technology (UIT), BU from June 09-21, 2003.
7. Served as the **resource person** for D M L T Course at USIC, B U from 26-02-02 to 22-03-02
8. Delivered **invited lecture** in a workshop on RF & Microwave Theory, Circuits and Antennas, organized by DIATM, Durgapur from July 12 – 18, 2004
9. Associated with the coordination works for organizing many Seminars, Symposia etc.

### LIST OF PUBLICATIONS of D Mondal

**Publications :** 77 papers & 01 Communicated  
Journals : 28 Conference & Seminar etc. : 49  
Book Chapter/Monograph etc. : 01  
Supervised M Phil and M Tech Dissertations : 07 & B Tech: 01

#### **Journals :**

1. B N Biswas, S Chatterjee, *D Mondal* & P Pal, 'Current valley in Gunn diode oscillators', J IETE, vol 34, pp 446-449, June 1988, India.
2. B N Biswas, *D Mondal* & P Pal, 'A low distortion lock-in discriminator', Electronics Letts, vol 24, pp 1398-99, Oct 1988, UK.
3. B N Biswas, A K Bhattacharya, P Pal, *D Mondal*, S K Ray & R Dey, 'New software controlled digital phase locked loop', Electronics Letts, vol 25, pp 1097-1098, Aug 1989, UK.
4. B N Biswas, P Pal & *D Mondal*, 'A new model for fundamental mode operation Gunn oscillator', J IETE, vol 37, no 3, pp 321-322, 1991, India.
5. P Pal, *D Mondal* & B N Biswas, 'A new microwave discriminator', J IETE, vol 35, no 5, pp 278-282, 1989, India.
6. B N Biswas, P Pal & *D Mondal*, 'A look at harmonic oscillations in Gunn oscillators', J IETE, vol 36, no 2, pp 114-118, 1992, India.
7. B N Biswas, *D Mondal*, P Pal, P Lahiri & D Mukherjee, 'A new DSP digital phase locked loop', J IETE, vol 39, no 1, pp 3-7, Jan-Feb, 1993.
8. B N Biswas, *D Mondal*, P Pal & P Lahiri, 'Injection locking technique of chirp measurement', IETE Tech Rev, vol 9, no 4, pp 309-311, July-August, 1992.
9. B N Biswas, P Pal, *D Mondal*, P Lahiri & A P Sinha, 'Frequency chirp in solid-state mm-wave source and its elimination', IETE Tech Rev, vol 10, no 1, pp 15-22, Jan-Feb, 1993.
10. N B Chakraborty, B N Biswas, *D Mondal*, P Pal & P Lahiri, 'Tuning characteristics of multipath ring oscillator', J IETE, vol 39, no 1, pp 31-38, Jan-Feb, 1993.
11. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'A new lightwave detector using direct phase-lock technique', IETE Tech Rev, vol 9, no 4, pp 292-296, July-August, 1992.
12. B N Biswas, A P Sinha, P Lahiri & *D Mondal*, 'Unconditionally stable tracking discriminator at 35 GHz', IEEE Trans Microwave Theory & Tech, vol 41, no 3, pp 388-394, March 1993.
13. P Lahiri, A P Sinha, *D Mondal* & B N Biswas, 'An improved FM discriminator at X-band', Ind J Pure & Appl Phys, vol 31, pp 384-387, June 1993.
14. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'Indirect optical injection locking of Ku-band Gunn oscillators', IETE Tech Rev, vol 10, no 6, pp 551-556, Nov-Dec, 1993.
15. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'Direct optical control of Impatt oscillators', Ind J Pure & Appl Phys, vol 31, pp 709-717, Oct 1993.
16. B N Biswas, (Miss) S Biswas, *D Mondal*, P Lahiri, D Mukhopadhyay & A P Sinha, 'A new DSP DPLL FM demodulator with a difference', IETE Tech Rev (Practical Design Idea), vol 12, no 3, pp 227-235, May-June 1995.
17. B N Biswas, P Lahiri, *D Mondal* & (Ms) M Chattopadhyay, 'Optical homodyne detection using an improved decision directed phase-locked loop', Ind J Pure & Appl Phys, vol 33, pp 150-156, March 1995.



18. B N Biswas, P Lahiri, G M Helaluddin, (Ms) M Chattopadhyay & D Mondal, 'Performance improvement of an optical heterodyne PSK receiver in presence of adjacent channel interference', Ind J Pure & Appl Phys, vol 34, pp 181-189, March 1996.
19. B N Biswas, (Ms) A Bhattacharya, (Ms) S Pal, D Mondal, P Lahiri & A Bose, 'Active microstrip phased array antenna revisited', J IETE, vol 45, no 2, pp 135-145, March-April, 1999.
20. B N Biswas, P Lahiri, (Ms) A Bhattacharya & D Mondal, 'Reduction of the effects of optical amplifier noise, data-to-phase-lock cross-talk noise and loop propagation delay in long haul optical communication by using a modified PSK homodyne receiver', J of The Inst. of Eng., Singapur, (J IES), Vol 40, No 1, pp.24-31, 2000.
21. B N Biswas, D Mondal, P Lahiri & (Ms) A Bhattacharya, 'An unique experimental method for determining the second order coefficient of the nonlinear conductance of a Gunn oscillator', IEE Electron Lett., Vol 35, no.24, pp.2123-2125, Nov'99.
22. B N Biswas, P Lahiri, D Mondal & A P Sinha, 'A simple coherent detector for a coherent FM-SCM system', Ind J Pure & Appl Physics, India, Vol 38, PP. 202-212, March 2000.
23. B N Biswas, (Ms) A Bhattacharya, P Lahiri & D Mondal, 'A novel scheme for reception using an active microstrip patch antenna', , IEEE Trans Microwave Theory Tech, vol 48, no 10, pp1765-1768, October 2000.
24. B N Biswas, S Pal, A Bhattacharya, D Mondal & P Lahiri, 'An opto-microwave phase-locked receiver for SCM signals', Ind J Radio & Space Phy, vol 30, pp 53-58, Feb 2001.
25. B N Biswas, (Ms) A Bhattacharya, D Mondal, P Lahiri & (Ms) S Pal (Biswas), 'On the combined use of optical injection locking and optical phase locked loop', IETE J Research vol 47, no 3&4, pp 117-126, May-Aug, 2001.
26. P Lahiri, (Ms) A Bhattacharya, D Mondal & B N Biswas, 'Rectangular Active Microstrip Patch Antennas: Few Experimental Observations', Ind J Physics, vol 75B, no 3, pp 179-182, June, 2001.
27. (Ms) A Bhattacharya, P Lahiri, D Mondal & B N Biswas, 'Dependence of AMPA Characteristics on the Location of Active Device, IETE J Research, vol 47, no 6, Nov-Dec 2001.
28. S Sarkar, T Banerjee, D Mondal & B C Sarkar, 'On the performance of an electrically controlled microwave phase shifter using injection synchronized Gunn oscillator,'- Accepted for publication in Ind J Pure & Appl Physics.
29. D Mondal & S Chatterjee, 'Predictably Unpredictable Phenomenon in Gunn Oscillator', Communicated.

### ***Symposiums/Seminars :***

1. B N Biswas, S Chatterjee, (Miss) S Sarkar & D Mondal, 'Co-channel interference in microwave-locked oscillator demodulator', Proc ISELDECS '87, vol 2, pp 244-246, Dec 16-18, 1987, Kharagpur, India.
2. S Chatterjee, P Pal, D Mondal, S K Ray & B N Biswas, 'Locking transient in injection locked Gunn oscillators', NSPEC Digest, pp 59-60, Dec 27-29, 1987, Burdwan University, Burdwan, India.
3. B N Biswas, D Mondal, P Pal, S Chatterjee & A K Bhattacharya, 'Harmonic oscillations in Gunn oscillators', Proc NSPEC, pp 101-103, Dec 27-29, 1987, Burdwan University, Burdwan, India.
4. B N Biswas, S Chatterjee, (Miss) S Sarkar, D Mondal & P Pal, 'Current valley in injection locked Gunn oscillator', Proc NSPEC, pp 104-105, Dec 27-29, 1987, Burdwan University, Burdwan, India.
5. B N Biswas, S Chatterjee, P Pal, D Mondal & S K Ray, 'Dual Gunn diode discriminator', Proc Second Asia Pacific Microwave Conf (APMC), pp 309-310, Oct 26-28, 1988, Beijing, China.

6. B N Biswas, *D Mondal*, P Pal, S Chatterjee & A K Bhattacharya, 'Second harmonic operation of Gunn oscillators', Proc APMC '88, pp 301-302, Oct 26-28, 1988, Beijing, China.
7. B N Biswas, A K Bhattacharya, S Chatterjee, *D Mondal* & P Pal, 'A simple FM discriminator', Proc APMC '88, pp 293-294, Oct 26-28, 1988, Beijing, China.
8. B N Biswas, *D Mondal*, P Pal & S K Ray, 'Microwave discriminator with a difference', Second Annual Session of ESES, 7th to 9th Oct, 1988, Assam.
9. B N Biswas, P Pal & *D Mondal*, 'Interference-immune injection tuned microwave discriminator', Proc NACONECS-89 (Tata McGraw Hill), pp 585-587, Nov 2-4, 1989, Roorkee University, Roorkee, India.
10. B N Biswas, (Miss) R Dey, *D Mondal* & P Pal, 'A new DSP type digital phase locked demodulator', Proc NACONECS-89 (Tata McGraw Hill), pp 436-437, Nov 2-4, 1989, Roorkee University, Roorkee, India.
11. B N Biswas, *D Mondal* & P Pal, 'New detectors for microwave-multiplexed lightwave system', Invited, XXIIIrd General Assembly of the URSI, Aug 28 - Sept 05, 1990, Prague, Czechoslovakia.
12. *D Mondal*, P Pal & B N Biswas, 'A locked oscillator discriminator', Presented in the XXIIIrd General Assembly of the URSI, Aug 28 - Sept 05, 1990, Prague, Czechoslovakia.
13. B N Biswas, P Pal & *D Mondal*, 'Demodulation-Remodulation technique of chirp elimination', Proc APMC '90, pp 987-989, Sept 18-21, 1990, Tokyo, Japan.
14. B N Biswas, A K Bhattacharya, P Pal & *D Mondal*, 'Locking characteristics of pulsed Impatt sources', Proc APMC '90, pp 983-985, Sept 18-21, 1990, Tokyo, Japan.
15. B N Biswas, P Pal & *D Mondal*, 'An efficient technique of second harmonic generation', Proc ICOMM-90 (Tata McGraw-Hill), pp 90-93, Dec 19-21, 1990, DEAL, Dehra Dun, India.
16. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'Tracking optical discriminator for wideband lightwave system', Proc APMC '92, August 11-13, 1992, Adelaide, Australia, pp 317-320.
17. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'New detection schemes for SCM lightwave signals', Proc ACE '92 of IEEE India Council, pp 158-161, Calcutta.
18. B N Biswas, A P Sinha, P Lahiri & *D Mondal*, 'A novel optical phase-locked loop', Presented in URSI '93 General Assembly in Kyoto, Japan, Aug 25 - Sept 03, 1993.
19. P Lahiri, G M Helaluddin, *D Mondal* & B N Biswas, 'A new optical homodyne PSK demodulator', Presented in URSI '93 General Assembly in Kyoto, Japan, Aug 25 - Sept 03, 1993.
20. B N Biswas, P Lahiri, A P Sinha & *D Mondal*, 'Beam steering of space-based phased array antenna', Accepted for presentation in APMC '93 in Taiwan.
21. B N Biswas, A P Sinha, (Ms) S Biswas, *D Mondal* & P Lahiri, 'Locked oscillator discriminator at microwave : Revisited', Accepted for presentation to APMC '93 in Taiwan.
22. B N Biswas, A P Sinha, G M Helaluddin, P Lahiri & *D Mondal*, 'On improving the performance of an optical costas loop', Accepted to Asea Pacific Conference on Communication in Korea.
23. B N Biswas, (Ms) S Biswas, *D Mondal* & P Lahiri, 'Optically controlled oscillators for phased arrays', Accepted for presentation in IETE Mid Term Symposium, April 8-9, 1995, Deal, Dehradun.
24. B N Biswas, (Ms) S Biswas, *D Mondal*, P Lahiri & (Ms) K Dalal, 'Electrical, optical and optoelectronic injection locking of microwave oscillators', Accepted for presentation at the 6th Annual Convocation of PIERS in Seattle, Washington, July 24-28, 1995.
25. B N Biswas, G M Helaluddin, *D Mondal* & P Lahiri, 'A new optical phase locked loop : Simulation study', Frontiers of Radio Sc Proc, INCURSI-96, pp IV-12-15, 1996.
26. G M Helaluddin, A P Sinha, *D Mondal* and B N Biswas, 'A modified optical I-Q loop : Simulation

- results, *ibid* (pp IV-17-20).
27. B N Biswas, P Lahiri & *D Mondal*, 'Optical injection phase-lock loop for carrier recovery and detection', *ibid* (pp VIII-7-10).
  28. B N Biswas, *D Mondal*, P Lahiri & A K Bhattacharya, 'Optical injection phase-lock loop with an electronic phase shifter', *ibid* (pp VIII-19-22).
  29. B N Biswas, P Lahiri, *D Mondal* & S Biswas, 'Injection synchronized optical phase locked loop', Proc of XXVth General Assembly of URSI, p 643, Lille, France, Aug 25 - Sept 05, 1996.
  30. B N Biswas, *D Mondal*, P Lahiri, 'Injection phase controlled optical phase locked loop, *ibid*, p 644.
  31. B N Biswas, *D Mondal*, P Lahiri & (Ms) S Pal, 'Double optical phase-locked loop for reception of SCM Signal', Accepted in International Topical Meeting on 'Microwave Photonics', ATRI, Kyoto, Japan, Dec 3-5, 1996.
  32. B N Biswas, S Pal, P Lahiri, *D Mondal* & D R Poddar, 'Phase-shiftless optical beam scanning of phased array antenna', Accepted in APMC'96, New Delhi, India, Dec 17-20, 1996.
  33. B N Biswas, (Ms) A Bhattacharya, *D Mondal*, P Lahiri & A Bose, 'Active patch antenna : an oscillator first, then antenna', Proc National Conference on Communication (NCC-99), Jan 29-31, 1999, pp 752-757, IIT, Kharagpur, India.
  34. (Ms) A Bhattacharya, B N Biswas, *D Mondal*, P Lahiri & A Sanyal, 'Experimental observation on reception capability of an active patch antenna', Proc INCURSI-99 : Frontiers of Electronics, Communication and Photonics, pp 24-25, Burdwan University, Burdwan, Feb 22-24, 1999.
  35. B N Biswas, (Ms) A Bhattacharya, (Ms) S Pal, *D Mondal* & P Lahiri, 'Harmonics in active microstrip patch antennas', *ibid*, pp 22-23
  36. B N Biswas, (Ms) A Bhattacharya, *D Mondal* & P Lahiri, 'Fundamentals of a active microstrip patch antenna', accepted for presentation in Antenna & Propagation (AP 2000) Symp, Davos, Switzerland, April 9-14, 2000.
  37. B N Biswas, (Ms) A Bhattacharya, *D Mondal* & P Lahiri, 'Improvement of oscillator stability in active microstrip patch antenna', accepted for presentation in Antenna & Propagation (AP 2000) Symp, Davos, Switzerland, April 9-14, 2000.
  38. P Lahiri, (Ms) A Bhattacharya, *D Mondal* & B N Biswas, 'Rectangular Active Microstrip Patch Antennas: Few Experimental Observations', SAMMIT-99, Dec 21-24, 1999, IRPE, Calcutta( This paper also published in Ind J Physics June issue, 2001 by the Organiser).
  39. B N Biswas, (Ms) A Bhattacharya, *D Mondal* & P Lahiri, 'Active microstrip patch antenna: yet to be understood', SAMMIT-99, Dec 21-24, 1999, IRPE, Calcutta.
  40. B N Biswas, *D Mondal* & (Ms) A Bhattacharya, 'Fundamentals of Active Microstrip Patch Antenna : Re-examined,' Nat Sym Advance Math Tools for Antenna Theo & Degn, BIT, Mesra, Jan 16-18, 2001 ( Invited).
  41. B N Biswas, *D Mondal*, S Chatterjee & A Bhattacharya, 'Mysterious Phenomenon in Waveguide Mounted Gunn Oscillators,' Conf Horizons of TeleCommun(HOT-2003) Digest,p-22, InRaPhEl, C U, Kolkata, Feb3-5, 2003.
  42. *D Mondal* & Anindya Bose, 'Low-Distortion FM Detector Using Active Microstrip Patch Antennas,' Conf Horizons of TeleCommun(HOT-2003) Digest, p-49, InRaPhEl, C U, Kolkata, Feb3-5, 2003.
  43. S Sarkar, T Banerjee, *D Mondal* & B C Sarkar, ' Microwave amplitude and phase modulator using bias tuned injection synchronized Gunn oscillator',- Proc INCURSI, National Conference on Radio Science in India, p-36, Nov 27-29 , 2003, NPL, New Delhi.
  44. B N Biswas, A Bhattacharya & *D Mondal*,, 'On the Technique of Synchronizing an Active

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