

Name	Pallath Pradeep Kumar
Qualification	Ph.D.
Designation	Reader
Specialization	Cloud Physics
Email	ppk@physics.unipune.edu.in
Phone	25691712, 25601161

1 Education

	Course	Institution	Year
1	B.Sc. (Hons.)	Osmania University	1980
2	M.Sc.	University of Roorkee	1982
3	Ph.D.	University of Roorkee	1986

2 Career Profile

	Organisation	Designation	Duration
1	UMIST, Manchester	Research Associate	September 1997 to
2	CSIR	Scientist Post-Doctoral Fellow	May 1988 to
3	University of Roorkee	Lecturer/ Reader	April 1990 to
4	University of Roorkee	Post-Doctoral Fellow	April 2001 to

3 Teaching Experience (Subjects/Courses Taught)

From December 1988 to M.Tech. (Atmospheric Physics/ Science)

4 Research Interests / Specialization

Cloud Microphysics, Ice Nucleation, Cloud Electrification, Light

5 Honors & Awards

Elected Member of the International Commission on Clouds and

6 Publication - Books, Journals, Articles

	Year of Publication	Title	Co-Author
1	2009	Laboratory Experiments on Cloud Microphysics	Jish Prakash
2	2005	Cloud Microphysics	Cor J.P.D. Abt
3	2004	Formation of Ice Nuclei	K. Borek
4	2004	Partially Ice Nucleated Clouds	S K. Borek
5	2004	Electric Fields in Clouds	M. Mohan
6	2004	Laboratory Experiments on Cloud Microphysics	G. Mandal
7	2004	A laboratory experiment on cloud microphysics	G. Mandal
8	2003	Organic Aerosols as Ice Nuclei	K. Borek
9	2003	An Introduction to Atmospheric Physics	A. K. Borek

Lightning
activity
as seen
by
TRMM
and
850hpa
wind
over a
selected
Indian
region
during
Monsoon

- 3 2008** . Baban P. I
P. Jish
4 2007 Laboratory Prakash
5 2006 Lightning XIV Natio

8 Professional Societies Memberships

- 1 American Geophysical Union
- 2 Indian Meteorological Society
- 3 Indian Physics Association

9 Public Service / University Service / Consulting Activity

the
Technical
Advisory
Committee
of the
Rashtriya
Vigyan
Evam
Prodyogiki
Sanchar
Parishad
(National
Council for
Science &
Technology
Communication),
Department
of Science
and
Technology
, Ministry
of Science
&
Technology
1 ,

Member of
the
Program
Advisory
and
Monitoring
Committee
for
Himalayan
Glaciology,
Department
of Science
and
Technology
, Ministry
of Science
and
Technology
,
Governmen
t of India
from June
2002 to
September
2007.

Program
Implementa
tion
Committee
for
STORM
(Severe
Thundersto
rms
Observatio
ns and
Regional
Modeling),
Department
of Science
and
Technology
, Ministry
of Science
&
Technology
,
Governmen
t of India.
January
3 2006 to

Expert for
Governmen
t of Andhra
Pradesh,
(India) on
Cloud
Seeding
Operations
2005 and
4 2006.

Member of
the
“Advisory
Committee
on Wind
Profiler
Radio
Acoustic
Sounding
System” for
Department
of Science
and
Technology
, Ministry
of Science
and
Technology
,
Governmen
t of India
March
2003 to
March
5 2006.

10 Projects (Major Grants / Collaborations)

**US
Army
Collaborator** Dr. Hugh
Laboratory Studies on Funded by **U.S. Army** Carlon

Laboratory and Field Measurements Funded by **Department of Science and Technology**

Laboratory simulation Funded by **Department of Science and Technology**

Design and Development of Wind Profiler Funded by **Indian Space Research Organisation**

Funded by
BCUD,
University
of Pune
Raindrop Size distribution

Funded by
CSIR,
Government
of India,
under
To study the winter precipitation
Study of Somali Jet using
Funded by Indian Space Research O

11 Other Details

Countries/ Institutes Visited:

UMIST, Manchester, U.K., Postdoctoral Fellow 1986 to 1988
Max-Planck Institute, Bonn, Germany 1987
ICTP, Trieste, Italy 1992
UMIST, Manchester, U.K. 1992
ICTP, Trieste, Italy, 1994
ICTP, Trieste Italy, 1996
U.S. Army, CBDCOM, APG, Maryland, USA 1996
BOKU, Vienna, Austria, 1996
U.S. Army, CBDCOM, APG, Maryland, USA 1997
National University of Mexico, Mexico City, 1997
Bureau of Royal Rainmaking, Chang Mai, Thailand 1999
University of Toronto, Canada, Post-Doctoral, 2001 to 2002

Ph.D. Students Guided

Rama Varma Raja 2000
Shubhangi Tavker 2001
Gurudas Mandal 2003
Jish Prakash (In Progress)
Bhupendra Raut (In Progress)
Sanjay More (In Progress)

M.Tech. Students Guided

Thara Prabha 1991
R. Prakash 1994
Unmesh Shinde 2004
Sanchita Borkar 2007
Sushant Puranik 2008

M.Phil. Students Guided
Tadipatri Pricilla 1996

Details
Physics, Electronics, Maths
Physics, Atmospheric Physics (Specialization)
Physics, Atmospheric Physics (Specialization)

1986 to March 1988

o April 1990

ill Present

o July 2002

ice) / Atmospheric Thermodynamics, Cloud Phycsis, Atmospheric Electricity, Radiation, Atmospheric En

ining

rd Precipitation (ICCP) for the period 2004 to 2012.

Book/Journal/Article

Atmospheric Research

Atmospheric Environment

J. Geophys. Res.

Geophys. Res. Lett.,

Indian J. Radio & Space Phys.

Indian J. Physics

Indian J. Physics.

Atmospheric Chemistry and Physics

Agricultural and Forest Meteorology

Atmospheric Research

Atmospheric Research

Long term changes and trends in the Atmosphere Vol I, New Age International.

WMO/TD No. 936

J. Geophys. Res.,

WMO TD No. 852

J. Geophys. Res.

Int. J. Climatol.

J. Geophys. Res.

Indian J. Radio &

Space Physics,

Indian J. Radio &

Space Physics,

Physics Education

Weather

J. Geophysical Res.

Annales Geophysicae

Indian J. Radio &

Space Physics,

Indian J. Radio &

Space Physics,

Annales Geophysicae

DST workshop on Electrodynamical Coupling of Atmospheric Regions

15th National Space Sciences Symposium, Ooty, India,

15th National Space Sciences Symposium, Ooty, India,

4th European Conference on Severe Storms, Trieste, Italy,
National Space Science Symposium, Visakhapatnam, India

July 1994 to January 1998
October 1997 to
October 2000
December 2004 to
December 2007.
August 2007 to July
2009

January 2007 to
September 2008

May 2008 to May
2010

January 2009 to January 2012

energetics and General Circulation