



ASIAN CONFERENCE ON ELECTRICAL DISCHARGES

8 - 10 December 2016

Venue : IC & SR Halls

**Department of Electrical Engineering
Indian Institute of Technology Madras**



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 Conference Halls I, II & III
 Auditorium
 Exhibition Hall
 Dining Hall

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SECOND FLOOR
 National Institute of
 Ocean Technology

THIRD FLOOR
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IC & SR BUILDING

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 AUDITORIUM
 DINING HALLS

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 CONFERENCE ROOM
 IC & SR OFFICE
 PROJECT ACCOUNTS
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**ACED-2016
 HALL 2**





Preparation methods for nanosized powders

| | |
|---|---|
| Chemical methods • Sol-gel • Hydrothermal • Solvothermal • Coprecipitation • Chemical reduction | Physical methods • Co-precipitation • Sol-gel • Hydrothermal • Solvothermal • Coprecipitation • Chemical reduction |
|---|---|


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September 2016
SR Hall



Preparation methods for nanosized powders

| | |
|--------------|----------------------------------|
| CCVD | Sol-gel method |
| SP | Hydrothermal synthesis |
| AP | Electrodeposition |
| EP | Electroless plating |
| CP | Electrochemical synthesis |
| APCVD | Electrochemical synthesis |
| APCVD | Electrochemical synthesis |

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Physical evaporation method

Physical evaporation method

Physical evaporation method



The diagram shows a cylindrical chamber with a central electrode and a surrounding ring electrode. It is connected to a power source and a vacuum system.

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Physical separation method

1. Physical separation method

2. Physical separation method

3. Physical separation method

4. Physical separation method



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The 11th Asian Congress on
Distance Education
ACED 2016
17-19 Dec 2016, Bangalore, India
K. BABURAO
Keynote Speaker













A man with a mustache and glasses, wearing a blue checkered shirt and grey trousers, stands on the right side of the room. He is holding a small device in his hands and appears to be addressing the group.

A man with grey hair and glasses, wearing a light-colored striped shirt, is seated at a table in the foreground. He is looking towards the speaker and has his hand near a microphone.

A woman with dark hair, wearing a yellow and green patterned top, is seated at a table. She is looking down at papers on the table.

A man with glasses, wearing a blue and white checkered shirt, is seated at a table on the left side of the frame.













A man in a dark suit and glasses stands on the right side of the room, looking towards the seated participants. He has his left hand on his hip and is wearing a small lapel microphone.

A man in a light purple patterned shirt is seated at a table, writing on a document. He has a name tag on his chest and is using a pen. A microphone is positioned in front of him.

A man in a purple shirt is seated at a table, looking down at a document. A water bottle is on the table in front of him. A microphone is also present.





FEM Method for estimation of magnetic flux density



A woman in a green and gold saree is standing and presenting. She is gesturing with her right hand while speaking.

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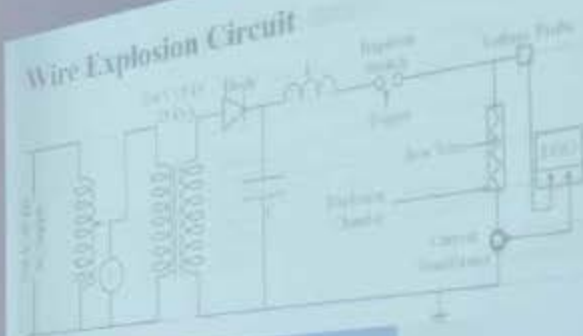
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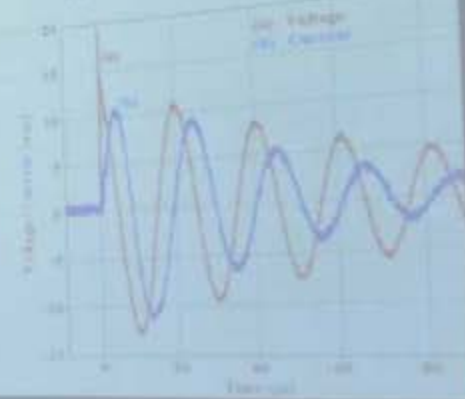
Wire Explosion Circuit



Experimental conditions

| | |
|-----------------------|--------------|
| Capacitance (C) | 1 μ F |
| Length of wire (mm) | 100 |
| Wire diameter (mm) | 0.2-0.3 |
| Charging voltage (kV) | 15, 21, 28 |
| Oxygen pressure (kPa) | 20, 100, 180 |

Typical current and voltage waveform



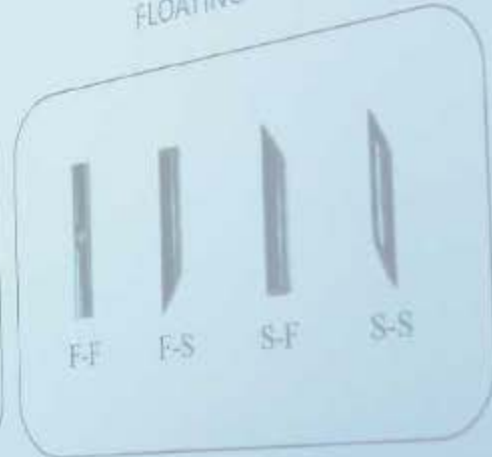


Aluminum Particles

STANDING



FLOATING



- Different tip profiles
- All particle length = 4 mm, diameter = 1 mm



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|-------------|-----------------------|---------------------------------------|-----|
| Nov. 19-22 | Sapporo, JAPAN | Hokkaido Univ. | |
| 2006 (13th) | Hokkaido Univ. | | 84 |
| Oct. 16-19 | Bandung, INDONESIA | Redy Mardiana | |
| 2008 (14th) | Bumi Sangkuriang | Bandung Univ. | |
| Nov. 23-25 | | | 231 |
| 2010 (15th) | Xi'an, CHINA | Xi'an J. | |
| Nov. 23-25 | | | |
| | Johor Bahru, MALAYSIA | Zulkuelek | 74 |
| | The Zon Hotel | Universiti Malaysia | |
| | Bangkok, THAILAND | Prof. K. Araks | 35 |
| | Thai Hotel | Chulalongkorn University | |
| | Chennai, INDIA | Prof. N. Vasu | |
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Physical evaporation method

-Basics-

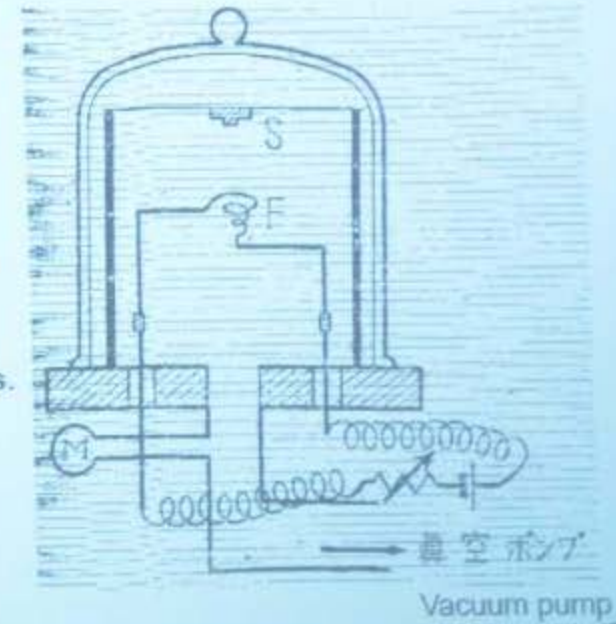
Evaporation in gas to form particles.

Pros

- ✓ Simple apparatus.

Cons

- ✓ Wide grain size distribution by Brownian motion.
- ✓ Heat dissipation from the heater through the electrodes.
→ Pulsed heating
- ✓ High melting point metals cannot be prepared.
→ Direct heating





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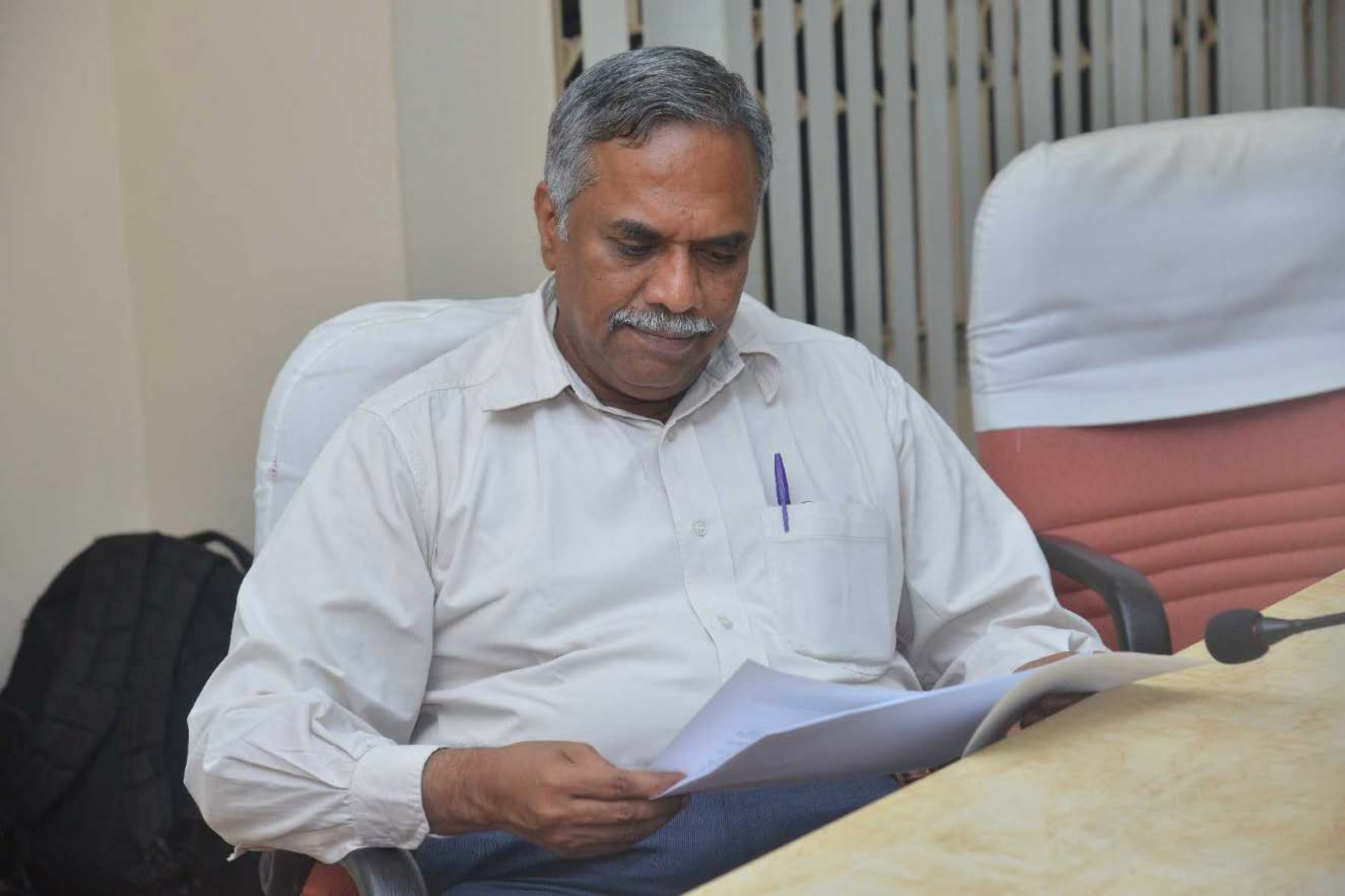
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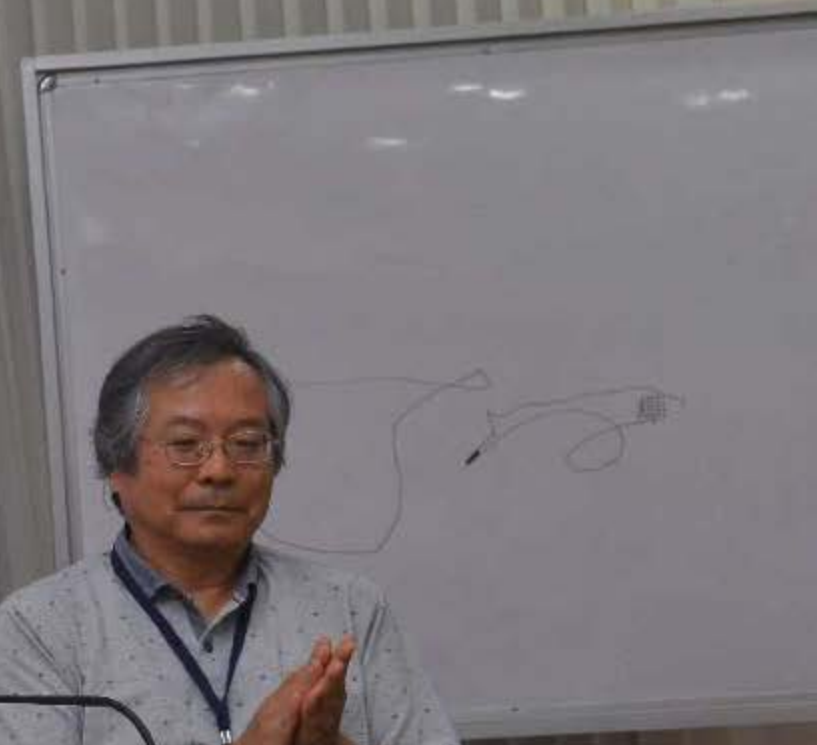


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