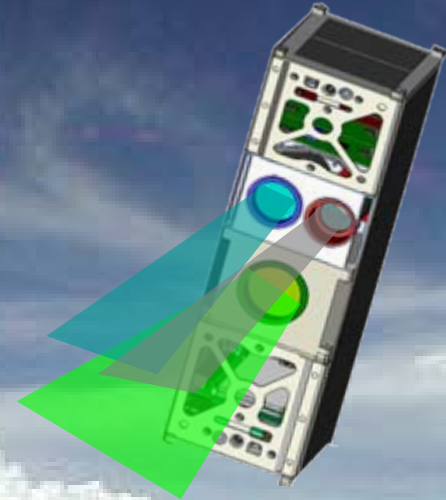


# Cloud CubeSat

## Science and Implementation Workshop

26 March 2009 - 9AM to 5:00PM  
University of Maryland Baltimore County  
Department of Physics  
room 401



- **Science Applications**
- **Payload**
- **Minimum Configuration**
- **Attitude Control and Determination System**
- **Communication**
- **Requirements**
- **Organization**
- **Student Involvement**

# Cloud CubeSat - Science and Implementation Workshop

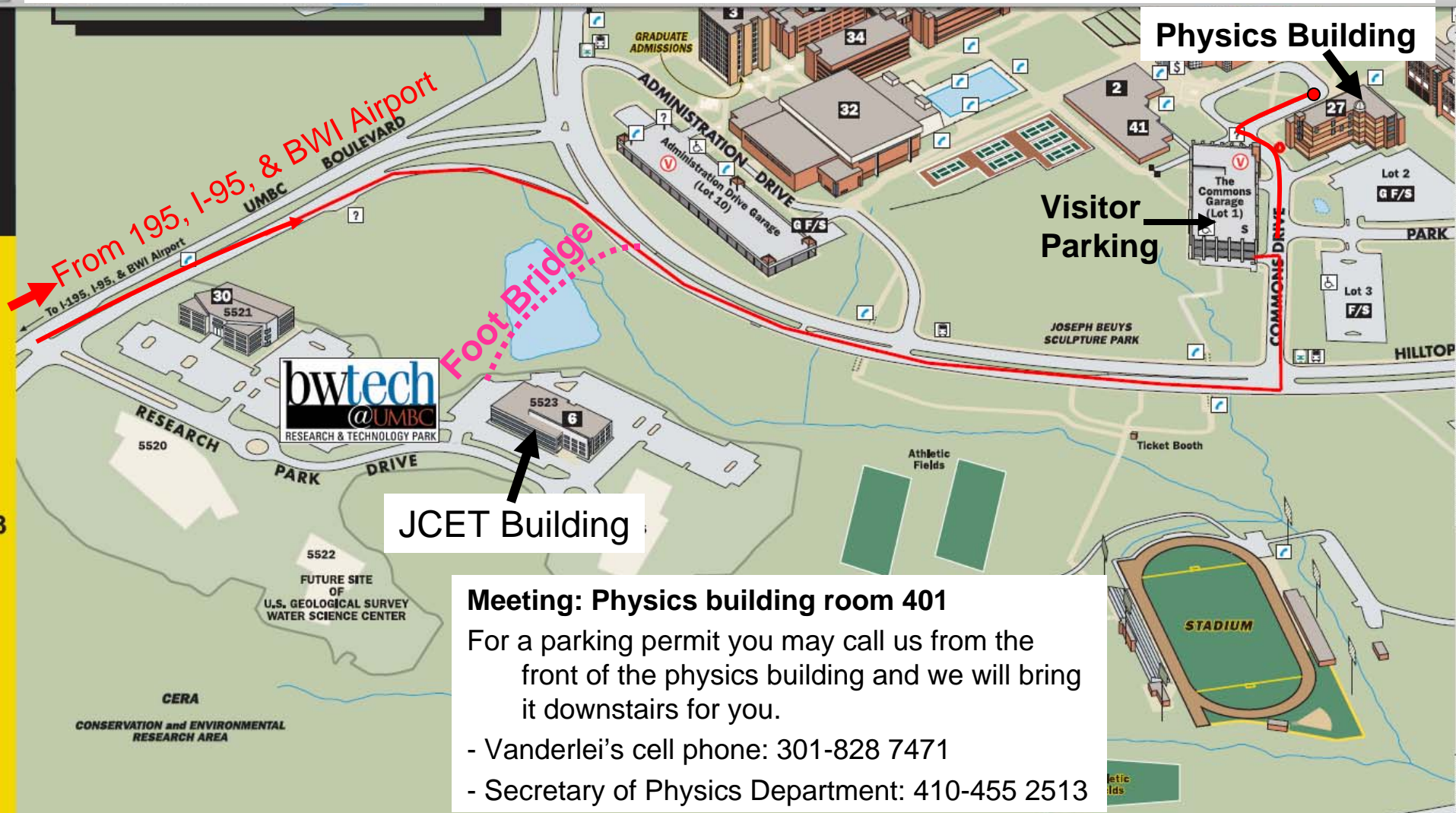
UMBC Physics Department room 401

start	duration	responsible	
9:00	15	J. Vanderlei Martins, UMBC Physics Dept.	Welcoming and Introduction
9:15	20	Doug Rowland-NASA GSFC	The NASA GSFC FireFly Cubesat
9:35	20	Opher Ganel, Hawk institute for Space Sciences	Mission Support for CubeSat Missions
9:55	20	J. Vanderlei Martins, UMBC Physics Dept.	Cloud CubeSat proposal to NSF
10:15	30	Coffee Break	
10:45	20	Alexander Marshak, NASA GSFC	Cloud side remote sensing: modeling and retrievals
11:05	20	Weidong Zhu- UMBC Mechanical Engineering Dept.	UMBC Mechanical Engineering Support for the Cloud CubeSat
11:25	20	Joel Sympson- NASA Wallops	The CubeSat Developments in NASA Wallops
11:45	20	Alexandre Correia - NASA GSFC	Cloud CubeSat Orbit Options
12:05	75	Lunch at the Skylight Room	
13:20	20	James Gerity, UMBC Physics Dept.	Attitude Control for Small Satellites
13:40	20	Ilari Shafer, Olin College	The Cloud-CubeSat Solar Sensor for attitude Determinaiton
14:00	20	Jacob Izraelevitz, Olin College	The Cloud-CubeSat Magnetorquers for Attitude Control
14:20	20	Joe Sedlak - A.I. Solutions	Attitude Control and Determination on Small Sattellites.
14:40	20	Steve Buczkowski, UMBC-Phys	Communication systems in the previkous Cloud CubeSat proposal
15:00	30	Coffee Break	
15:30	20		Open Discussion on the Cloud CubeSat Payload
15:50	20		Open Discussion on Data Rate and Communication options
16:10	20		Open Discussion on the Attitude control and Determination System
16:30	20		Open Discussion on How to structure the final proposal
16:50	15	Summary of the Day and Action Items.	
17:05		End of the Workshop	

## Directions to UMBC:

- **from South:** take BW Pkwy North (or I-95 N), exit on 195 West, enter right at UMBC Boulevard (right after I-95 exit); turn right on Hilltop circle, turn left on the Commons drive (2<sup>nd</sup> stop sign) and park on the commons garage. You will need a parking permit or quarters to park there. The Physics building is right in front of you with a telescope dome on the top.

- **from BWI airport:** take 195 West 195 West; enter right at UMBC Boulevard (right after I-95 exit); turn right on Hilltop circle, turn left on the Commons drive (2<sup>nd</sup> stop sign) and park on the commons garage. You will need a parking permit or quarters to park there. The Physics building is right in front of you with a telescope dome on the top.



JCET Building

### Meeting: Physics building room 401

For a parking permit you may call us from the front of the physics building and we will bring it downstairs for you.

- Vanderlei's cell phone: 301-828 7471
- Secretary of Physics Department: 410-455 2513