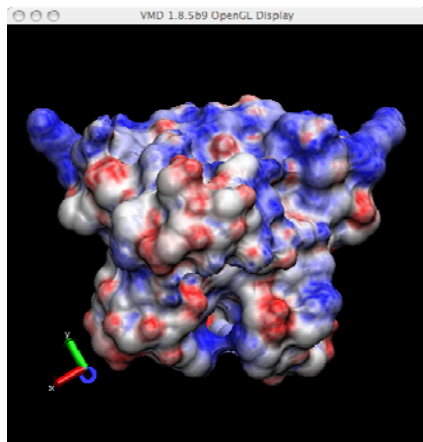


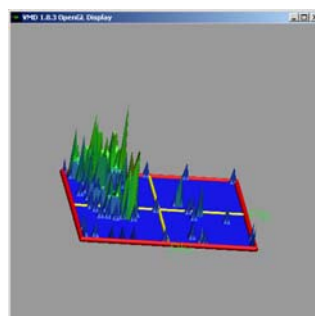
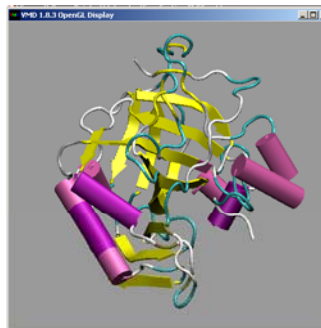
## Molecular Visualization II



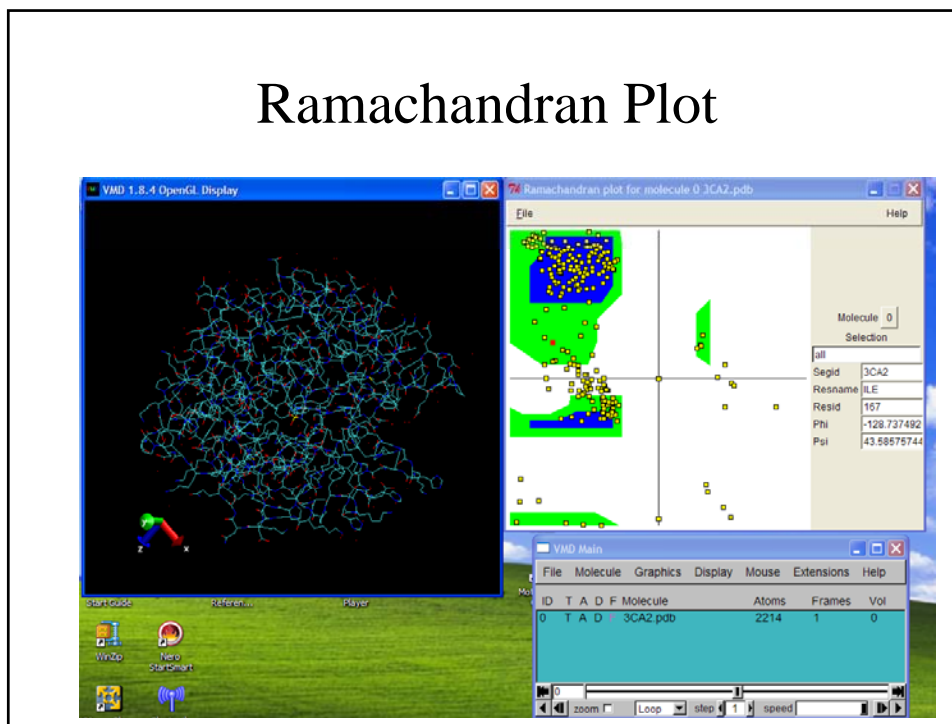
Department of Chemistry & Biochemistry  
Center for Computational Sciences  
Duquesne University

## VMD

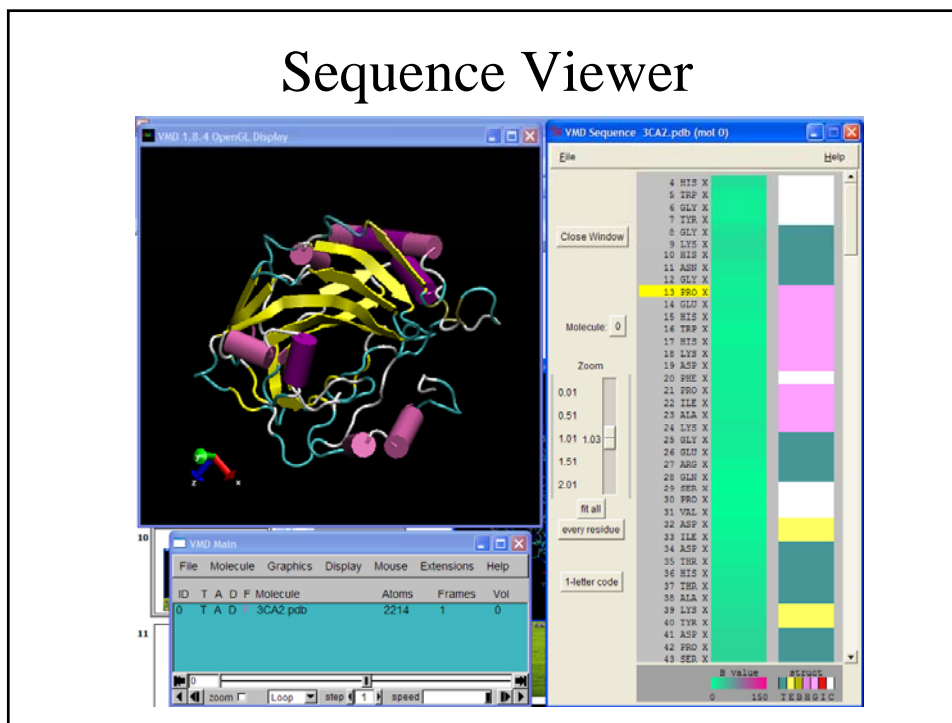
- Display a protein
- Generate a 2d and 3d Ramachandran plot
- Sequence Window
- Display a molecular surface
- Illustrate animation using
  - Water dimer
  - Bucky balls
- Drawing 3d surfaces



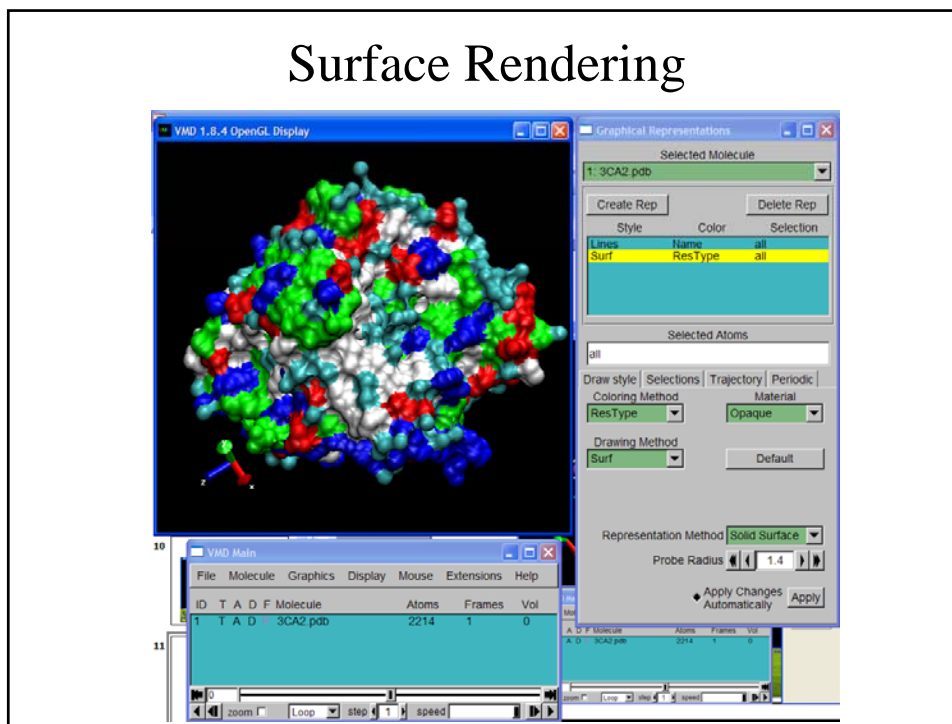
## Ramachandran Plot



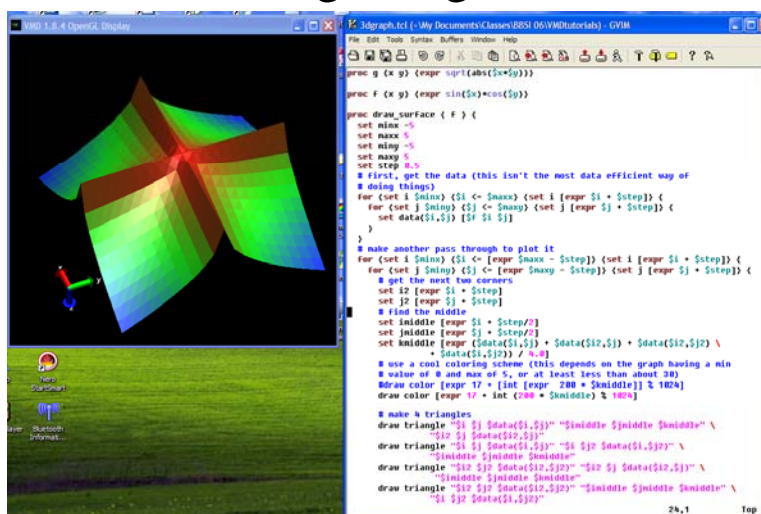
## Sequence Viewer



## Surface Rendering

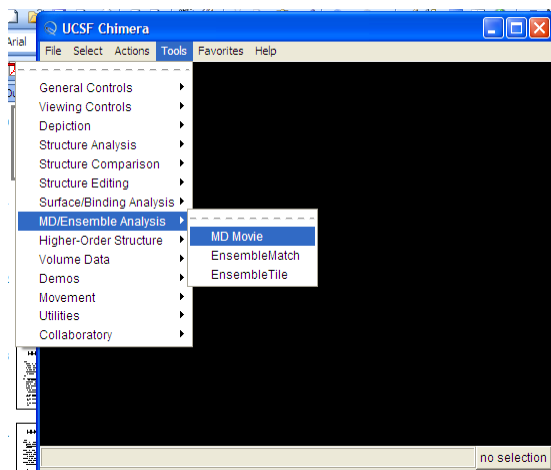


## Drawing using VMD

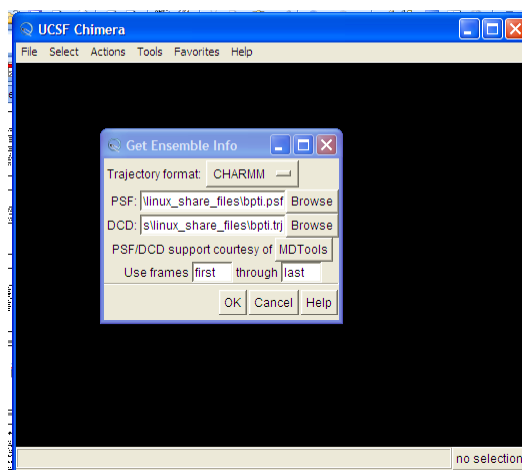


In the VMD command window type `draw_surface g`  
 The following website contains a number of other scripts using VMD:  
[http://www.ks.uiuc.edu/Research/vmd/script\\_library/](http://www.ks.uiuc.edu/Research/vmd/script_library/)

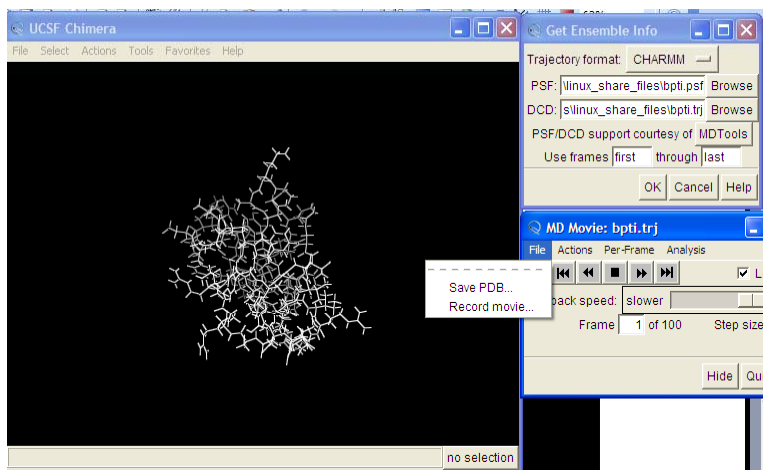
## Making a Movie with Chimera



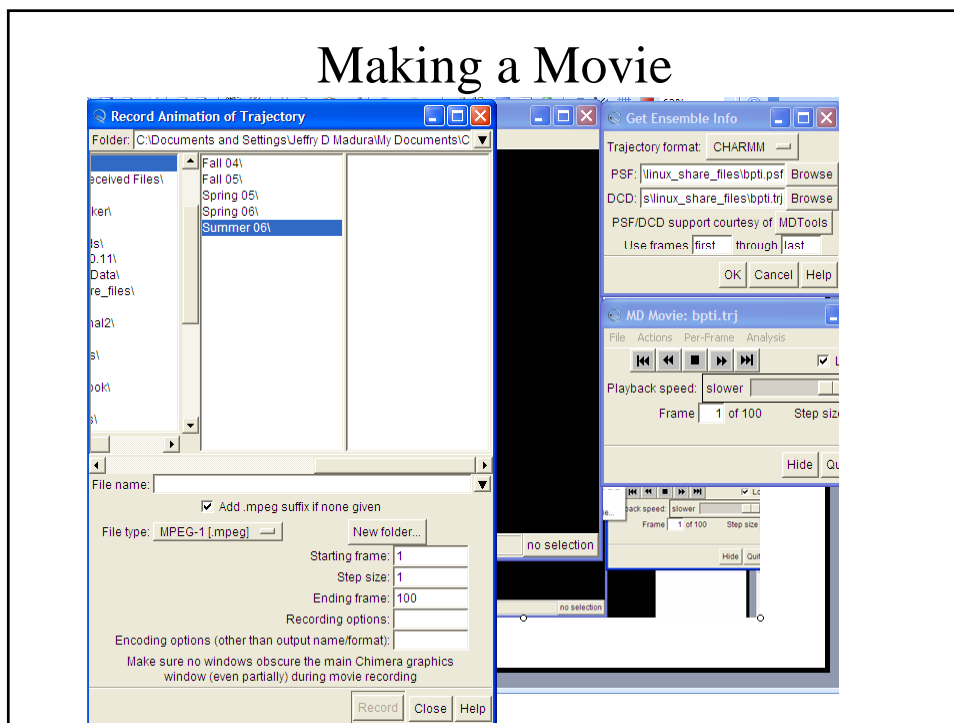
## Making a Movie



## Making a Movie



## Making a Movie



# My First Movie

