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| Meeting Date | 3/31/2014 |  | |  |
| Meeting Place | SSRL | Leader | Tom Moline | |
| Minutes Date | 4/1/2014 | Participants | Max Polley, Mike Sarber, Kate Clements, Trevor Woolfolk, Nate Richard, Denana Vehab | |

| Description | Action | Due Date |
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| **ADC Overview:**  Key Terms:   * RSO=Resident Space Object * Target/Secondary/Dummy/Slug=Rascal Spacecraft that Does not Have Active Control or Propulsion * Interceptor/Primary/Brascal=Rascal Spacecraft that Does Have Active Control and Propulsion * Stationkeeping=Maintaining a Set Distance between the target and chaser   + Remote Stationkeeping (RSK): stationkeeping beyond 10 meters   + Inspection Stationkeeping (ISK): stationkeeping within 10 meters * Separation: going from ISK to RSK * Rendezvous: going from RSK to ISK * RPO=Rendezvous and Proximity Operations   Mission:   * Start out together * Command Separation * Enter Search Mode/Detumble * ISK * Continued Separation * RSK * Rendezvous * Repeat if Possible without Aids   Current Status:   * As of now, we have a MatLab script that plots the path and velocity of the interceptor relative to the target for various initial relative velocities and final positions. * This allows for the formulation of ΔV calculations for the mission, which range from 1 m/s to 50 m/s (best to worst case). * Everything is defined in terms of CW Coordinate frame (More on this in document that will be sent out). * Can also take the information from Matlab and produce an animation of the mission in STK   Future Work:   * Need to split into two separate teams: one focusing on developing control systems for the primary spacecraft, and one focusing on the detumbling mechanism for the secondary spacecraft.   + DV, TM, and MP will likely focus on the former, with TW, MS, and KC on the latter. * Otherwise, literature is available for anyone to read on control systems and orbital mechanics (on the conference table in the lab). * Let’s go! | **Send out ΔV analysis summary (TM)** | 04/01/2014 |