

## Creating the Fleet Maker Workshop # 3 Schedule

| <b>Day 1 – Friday, April 14, 2017</b> |  |                            |   |             |
|---------------------------------------|--|----------------------------|---|-------------|
| <b>Time</b>                           | <b>Activity</b>  | <b>Duration (estimate)</b> | <b>Instructor</b>   | <b>Room</b> |
| 8:00 – 9:00                           | Workshop Introduction and Other Information  | 15 min.                    | Dr. Tony Dean   | KH125       |
|                                       | Pre-Workshop Survey  | 45 min.                    | Dr. Vukica Jovanovic  | KH125       |
| 9:00 – 10:00                          | Module 1: 3D Printing  | 50 min.<br>(10 min. break) | Dr. Karina Arcaute  | KH125       |
| 10:00 – 12:00                         | 3D Printing Hands-On<br>- Components<br>- Loading Material<br>- Leveling<br>- Printing   | 2 hrs.                     | Drs. Karina Arcaute,<br>Vukica Jovanovic,<br>Onur Bilgen,<br>Michel Audette,<br>Tony Dean | KH116       |
| 12:00 – 1:00                          | LUNCH  | 1 hr.                      |   |             |
| 1:00 – 2:00                           | Module 2: CAD – Computer Aided Design  | 1 hr.                      | Dr. Vukica Jovanovic  | KH125       |
| 2:00 – 2:30                           | Module 3: Slic3r – Layer Preparation Software  | 30 min.                    | Dr. Karina Arcaute  | KH125       |
| 2:30 – 2:50                           | 3D Printing Hands-On<br>- Sending to Print<br>- Break (10 min)                           | 20 min.<br>(10 min. break) | Drs. Karina Arcaute,<br>Vukica Jovanovic,<br>Onur Bilgen,<br>Michel Audette,<br>Tony Dean | KH116       |
| 3:00 – 4:20                           | Module 4 – Part 1: Materials, Layers and Orientation Matters                             | 1hr. 20 min.               | Dr. Onur Bilgen   | KH125       |
| 4:20 – 4:50                           | Module 4 – Part 2: Slic3r - Orientation, Layers and Shells, Infill and Thickness Effects | 30 min.                    | Dr. Onur Bilgen   | KH125       |
| 4:50 – 5:00                           | Homework Discussion  | 10 min.                    | Dr. Tony Dean   | KH 125      |

| <b>Day 2 – Saturday, April 15, 2017</b> |  |                            |   |                  |
|---|--|----------------------------|---|------------------|
| <b>Time</b>                             | <b>Activity</b>  | <b>Duration (estimate)</b> | <b>Instructor</b>   | <b>Room</b>      |
| 8:00 – 8:15                             | Homework Discussion  | 15 min                     | Dr. Tony Dean   | KH125            |
| 8:15 – 9:00                             | Module 5: Reverse Engineering in CAD   | 45 min.                    | Dr. Vukica Jovanovic  | KH125            |
| 9:00 – 12:00                            | Instructor Guided CAD, Slicing and 3D Printing: Hands-On Session<br>- Design, Slice, Print Your Own Design | 3 hr.                      | Drs. Karina Arcaute,<br>Vukica Jovanovic,<br>Onur Bilgen,<br>Michel Audette,<br>Tony Dean | KH116            |
| 12:00 – 1:00                            | LUNCH  | 1 hr.                      |   |                  |
| 1:00 – 1:45                             | Module 6: Advanced Reverse Engineering   | 45 min.                    | Dr. Michel Audette  | KH125            |
| 1:45 – 4:30                             | Instructor Guided Advanced Reverse Engineering<br>- Scanning in the lab<br>- Mesh Fix<br>- 3D Printing     | 2 hr. 45 min.              | Drs. Karina Arcaute,<br>Vukica Jovanovic,<br>Onur Bilgen,<br>Michel Audette,<br>Tony Dean | KH116,<br>KH 125 |
| 4:30 – 5:00                             | Post-Workshop Survey<br>Wrap-up  | 30 min.                    | Drs. Vukica Jovanovic,<br>Tony Dean   | KH125            |