What is claimed is:

1. A feedstock saccharification system comprising:

a tank configured to contain a cellulosic or lignocellulosic biomass feedstock and a liquid medium;

a dispersing system configured to disperse the biomass feedstock in the liquid medium, the dispersing system comprising a chamber and, within the chamber, a rotating member which draws the feedstock and liquid medium into the chamber and expels a dispersion of the feedstock in the medium from the chamber; and

a delivery device configured to deliver the biomass feedstock to the vessel, the delivery device comprising a hopper disposed above and outside the vessel and a vibrating device configured to vibrate the hopper;

wherein the dispersing system includes a rotating member that generates sufficiently high static fluid pressure within the chamber so that the dispersing system functions as a centrifugal pump.

2. The system of claim 1 wherein the rotating member comprises mixing elements arranged coaxially with a rotor that is disposed in rotor-stator relationship with a side wall of the chamber.

3. The system of claim 1 wherein the dispersing system further comprises a jet mixer.

4. The system of claim 1 wherein the dispersing system comprises a positive displacement pump.

5. The system of claim 4 wherein the positive displacement pump comprises a progressive cavity pump.

6. The system of claim 3 wherein the jet mixer comprises a jet flow agitator.