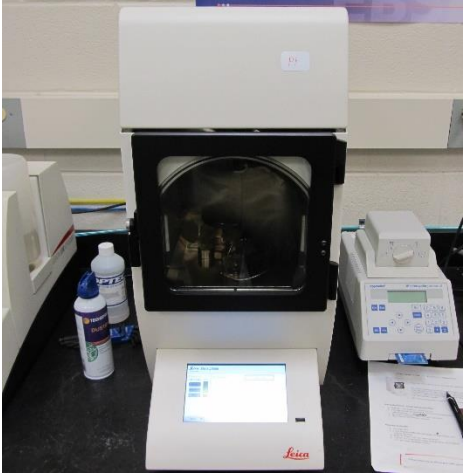


	<b>Operational SOP</b>	Date	May 16, 2023
	<b>EM ACE600 Coater</b>	Revision	1.0
		Equipment Manager	Nicolas Briot

<p><b>Purpose:</b> Basic operation of the Leica EM ACE600 Coater</p>	
<p><b>Required PPE:</b></p> <div style="text-align: center;">  <p>Nitrile or Latex Gloves</p> </div>	
<p>Leica EM ACE600</p>	


<p><b>Potential Hazards:</b></p> <div style="display: flex; align-items: center;">  <p>There is a danger of pinching one's fingers when closing the flange (stage).</p> </div>
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<p><b>Reference Documents:</b></p> <ul style="list-style-type: none"> <li>• Leica EM ACE600 Operating Manual</li> </ul>
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<p><b>Required Equipment &amp; Materials:</b></p> <ul style="list-style-type: none"> <li>• SEM mounts</li> <li>• SEM mounting accessories</li> </ul>
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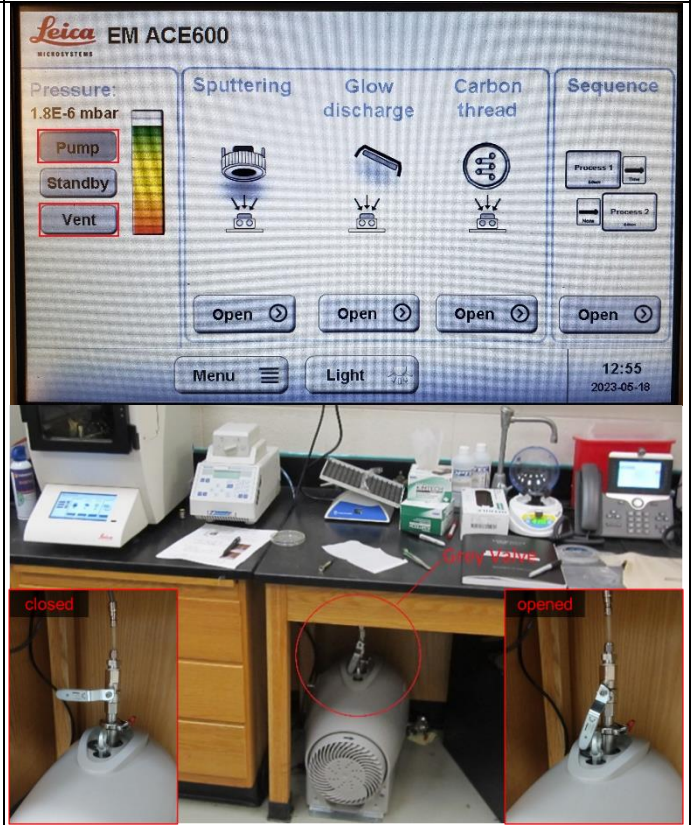
Steps	Key Points
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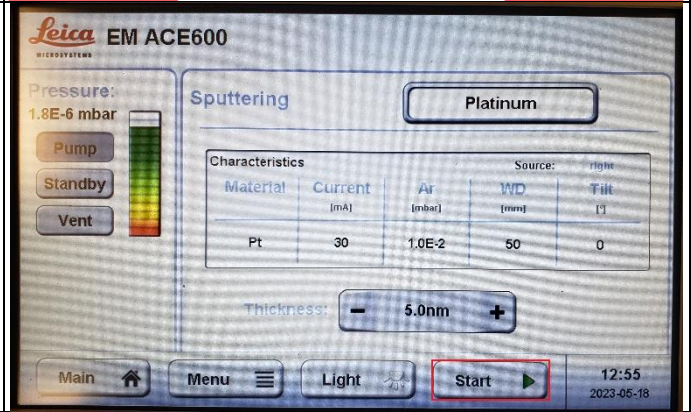
	<b>Operational SOP</b>	Date	May 16, 2023
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0. Mount sample onto the selected SEM holder (refer to individual training)

1. Sample Loading
- Press the “Vent” button on the sputterer. Then, turn the grey valve on the external backing pump to the closed position.
  - Open the chamber once the internal pressure has reached 7.5E2 mbar. It should open easily (do not force the door open).
  - Load the sample onto the stage. Do not touch the QCM at the center.
  - Press the “Pump” button on the sputterer. Then, turn the grey valve on the external backing pump to the open position.



2. Processing
- Select a process from the home screen (refer to individual training).
  - Set the parameters of the selected process (refer to individual training).
  - Start the process



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<p>3. Shutdown Procedure</p> <ol style="list-style-type: none"> <li>a. Press the “Vent” button on the sputterer. Then, turn the grey valve on the external backing pump to the closed position.</li> <li>b. Open the chamber once the internal pressure has reached 7.5E2 mbar and unload the sample from the stage.</li> <li>c. Press the “Pump” button on the sputterer. Then, turn the grey valve on the external backing pump to the open position.</li> </ol>	
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