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Abstract for an Invited Paper  
for the MAR17 Meeting of  
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**Synthesis and devices of complex oxides in the 2D limit**

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Recent advances in synthetic techniques have enabled the growth of complex oxides and their heterostructures with atomic-scale control. We will present new approaches to fabricating freestanding crystalline membranes, which provide the opportunity for wide-scale integration with other materials families. We will also present novel devices utilizing 2D oxide heterostructures, with emphasis on perpendicular transport geometries.