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# LOW-TEMPERATURE THERMOCHRONOLOGY: TECHNIQUES, INTERPRETATIONS, AND APPLICATIONS

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**COVER:** ***Upper left***: Apatite crystals from the Bighorn Mountains, Wyoming (scale bar is 300 μm). ***Upper right***: Arrhenius plot for step-heating helium diffusion experiment on titanite crystal fragments; after Reiners PW, Farley KA (1999) He diffusion and (U-Th)/He thermochronometry of titanite. *Geochim Cosmochim Acta* 63:3845-3859. ***Lower left***: 3D thermo-kinematic model of the Himalayan front and major structures, Central Nepal; courtesy of D. Whipp and T. Ehlers. ***Lower right***: View of the Washington Cascades, from Sahale Arm; photo by Drew Stolar.

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