Much of what Geomorphology is concerned with is not seen. By employing techniques and approaches borrowed from other Geosciences, and by considering the far field effects of geomorphic processes, we can better resolve the dynamics of landscapes and increase the visibility of Geomorphology. For example, seismological techniques can be used to determine what happens where in a landscape, when and with what magnitude. Thus, seismological observations can resolve the connections between different geomorphic processes at the landscape scale, and help probe the link between meteorological forcing and geomorphic response. Such observations can also provide a backdrop against which the impact of erosion on chemical weathering and the transfer of carbon from the short, superficial cycle into geological storage can be considered. Using examples from active mountain belts around the world, this lecture will explore the interface of Geomorphology with Geophysics and Geochemistry and seek to make invisible geomorphology a bit more visible.

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