

tists and "technologists," which he reduces to research and testing.

These categories fail to capture the complex historical process that he describes. Cahan shows that Siemens and Helmholtz tied together technical, scientific, financial, and political resources in building an institute to carry out research and testing in electrical technology and fine mechanics. They had opponents. Industrial and engineering groups represented in the German Engineering Association wanted an institute to carry out research in "engineering sciences," but Cahan dismisses them as technologists. These competing programs would have connected German science, technology, and society in different ways, hence the heated debate. Cahan recognizes the key role that mensuration played in tying together the new Reich, but the ideology of "pure" science was meant to insulate science, and it does not allow Cahan fully to analyze one program for binding the nation together. Nor, as Cahan shows, did the ideology allow the PTR's first three directors adequately to accommodate science and testing in one institute. Despite its conceptual problems, Cahan's study is a valuable introduction to the institutionalization of measurement.

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