



Exploring the World of Science

# Division B Rules Manual

Division B (Grades 9-12)

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# 2014 Science Olympiad Division B Rules Manual

**Jonathan Finn**

## 2014 Science Olympiad Division B Rules Manual:

*Beyond the Finish Line* Jonathan Finn, 2020-09-23 In the 1880s photographers and sports enthusiasts confidently declared the end of dead heats in sporting competition Reflecting a broader social belief in technology proponents of the camera stressed that the device could provide definitive proof of who won and who lost Yet despite this remedy for the inadequate human eye competitive races between horses boats and bicycles ended too close to call a sole champion More than a century later when cameras can subdivide the second into ten thousandths and beyond athletes continue to cross the finish line in ties In this fascinating journey through the history of the photo finish in sports Jonathan Finn shows how innovation was animated by a drive for ever more precise tools and a quest for perfect measurement As he traces the technological developments inspired by this crusade from the evolution of the still camera to movie cameras ultimately leading to complex contemporary photo finish systems Finn uncovers the social implications of adopting and contesting the photograph as evidence in sport At every turn empirical obsession intersects with the unpredictability of sports creating a paradox wherein the precision offered by photo finish technology far exceeds the realities of human performance and its measurement Separating athletes by the hundredth thousandth or ten thousandth of a second is often a fiction that comes with significant material and cultural implications A lively biography of a critical technology *Beyond the Finish Line* illuminates the cultural role of the photo finish in win at all costs culture and warn that in our pursuit for precision we may threaten the human element of sport that galvanizes mere spectators into fans *Congressional Record* United States. Congress, 1991 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in *The Debates and Proceedings in the Congress of the United States* 1789 1824 the *Register of Debates in Congress* 1824 1837 and the *Congressional Globe* 1833 1873

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