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## 2000 SPR AWARD FOR DISTINGUISHED CONTRIBUTIONS TO PSYCHOPHYSIOLOGY

# John T. Cacioppo

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*Presentation to John Cacioppo on the occasion of the Award for Distinguished Contributions to Psychophysiology, Saturday October 21, 2000, San Diego.*

The award given to John Cacioppo was the 20th occasion on which this award was made. John is the first of his generation to receive this distinguished award. In fact, he is the only recipient of the Award for Distinguished Contributions who was earlier recognized by the Award for Distinguished Early Career Contributions to Psychophysiology, which he received in 1981.

John exemplifies everything important about our discipline. His work embodies a kind of Psychophysiology of which Chester Darrow and John Lacey would be proud. John Cacioppo was originally trained as a social psychologist and received his Ph.D. from Ohio State in 1977. His early publications from graduate school were in the area of persuasion. While at OSU, John began to take an interest in psychophysiology through his work with Curt Sandman. His first article in *Psychophysiology* was published in 1978 with Sandman and was on the effects of heart rate biofeedback on attitude change. Thus began the marriage of John's abiding commitment to the objective study of the social world and biology, a quest that he continues to pursue today.

John has worked on a breathtaking range of questions, and with each new question he adopts the methods that are needed to answer that question. And these methods are not only psychophysiological. In an article of which John was first author that was published in 1981, he analyzed the content and design of birthday cards for sons and daughters to examine gender differences in cultural values.

In his development of social psychophysiology, John pursued many different issues with a broad range of methods. If the methods required were new to him, not only did he master them, but he inevitably ended up making a major contribution to the understanding of the methods themselves in addition to the original substantive question. For example, early on in his career, John began to use electromyography to examine affective and related processes. His 1981 article in *American Psychologist* on this topic was a major contribution to the biobehavioral sciences in introducing EMG as a useful measure to address a range of important psychological phenomena. Then in 1986, with Fridlund, he published a Guidelines article for EMG research in *Psychophysiology*.

Throughout his career, in addition to his penetrating empirical research program and the conceptual advances in methodology have accompanied it, John has also published a number of seminal articles that go right to heart of psychophysiology—how we can

make psychological inferences from physiological or biological data. His sophisticated and eloquent commentary on these matters has been monumental in educating new students and reminding established investigators of the conceptual minefields that lie before us in our quest to understand the relationship of biology and mind. His 1990 article with Tassinari in *American Psychologist* was one of his early efforts to articulate the several ways in which psychological constructs can be related to physiology. This effort has continued with his penetrating essay also published in *American Psychologist* six years later with Sarter and Berntson on brain imaging.

John was on the faculty at the University of Iowa from 1979 through 1989, and this was the decade of social psychophysiology for him. He almost single-handedly launched this as a respectable and important subdiscipline and made novel contributions to our understanding of several social processes by using psychophysiological measures. John also began leading the NSF-funded Summer Institutes in Psychophysiology during these years, and, for many investigators who are now regular contributors to the psychophysiology literature, John's teaching efforts were instrumental in furthering their careers.

During his time at Iowa he also put together the edited volume *Principles of Psychophysiology* that appeared in 1990. This volume helped to provide a firm modern foundation for our discipline. Although there were earlier edited volumes on psychophysiology, John expanded the scope with this volume by his inclusion of chapters on the application of psychometric principles to psychophysiology, by a chapter on psychoneuroimmunology, and by several chapters that presented novel data analytic techniques. He has continued his service to the field with his new *Handbook of Psychophysiology*, a beautifully done tome published in 2000 that further stretches the discipline and, for example, includes chapters on hemodynamic imaging.

In 1989 he moved to Ohio State, where he remained until 1999. Toward the end of his extraordinarily productive stay at OSU, he was the University Chair Professor. OSU presented numerous opportunities for John that he was able to creatively weave together in an extraordinary new trajectory. He quickly established a wonderful collaboration with Gary Berntson for which the field will be eternally grateful. Their 1991 *Psychological Review* article on autonomic space was a major conceptual contribution that has transformed our understanding of the operating characteristics of the autonomic nervous system and led to a powerful set of ideas

about how sympathetic and parasympathetic activation interact. During this period he also forged an incredibly fruitful collaboration with Jan Kiecolt-Glaser, Ron Glaser, Bill Malarkey, and their colleagues on the relations among measures of the immune, endocrine, and autonomic nervous systems. This work is an example of John's breathtaking reach. He has begun to systemically investigate the role of various complex social factors, such as loneliness, on health, with comprehensive measurement of several candidate mechanisms through which such effects operate, including effects on immune, endocrine, and autonomic function. The first phase of this work was beautifully summarized in the article based upon his SPR presidential address that was published in *Psychophysiology* in 1994. During the second half of his tenure at OSU, in addition to everything else he was doing, John took on the editorship of our society's journal. His stewardship of the journal was outstanding, and he helped to expand its scope by encouraging unusual breadth of content in the articles, through Special Issues and via a very broad editorial board.

John has three salient qualities that stand out as defining characteristics. One is that John is awesomely smart. It is a pleasure to see his mind in action and the kinds of connections he makes. The

second is that John is an amazingly nice person, one who is extremely gracious and caring. And the third is that John has a big reach, is willing to stretch his arms around very diverse phenomena, and is almost always able to land with a righted posture and make good sense and synthesize what he has heard and seen.

In 1999 John moved to the University of Chicago as the Tiffany and Margaret Blake Distinguished Service Professor where he also serves as the codirector (with Martha McClintock) of the Institute for Mind and Biology. Here John continues the special odyssey that he has so effectively begun and has engaged another wonderful group of colleagues with whom I am sure he will generate many creative contributions. He calls his current quest social neuroscience, and this phrase appropriately reflects the extraordinary range of phenomena he is tenaciously committed to synthesizing.

It is very fitting that SPR present John Cacioppo the highest award it confers—the Award for Distinguished Contributions to Psychophysiology. There is no one more deserving, and it is particularly gratifying to be bestowing this award upon someone who is still so young and will be contributing to our discipline for years to come.

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