

# (WHAT IS) THE CONTRIBUTION OF PHONETICS TO CONTEMPORARY SPEECH SYNTHESIS RESEARCH (?)

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**Kurzfassung:** Recent advances in speech technology have significantly reduced the necessity for traditional phonetic system components or phonetic expertise, e.g. rule-based prosody models. We therefore need to ask the question, whether and how phonetics ought to play a role in ongoing and future speech synthesis development. The answer can be derived directly from a global analysis of the weaknesses in state-of-the-art systems. Their quality limitations unveil those areas where phonetics can still provide important impulses for system improvement. In this paper, it is argued that even if phoneticians "traditional" tasks have become less influential, with the advent of more dynamically flexible and interactive systems new challenges have arisen and need solutions within the humanities.

## 1 Phonetics in State-of-Art Speech Synthesis

Traditionally, phoneticians and engineers worked hand-in-hand on developing speech synthesis applications<sup>1</sup>: A lot of explicit phonetic knowledge was needed to hand-craft or statistically motivate rules in order to predict formant trajectories, phone durations, intonation contours and lots of other phonetic detail (e.g. [11] or the collection of many phonetically inspired approaches to synthesis in [27]). With data storage becoming less of a problem, and with data driven methods showing their superior ability to detect regularities and interdependencies in masses of data, phonetic knowledge was still needed when doing symbolic annotations or developing cost functions. In unit selection approaches, phoneticians determined the optimal levels of granularity for segmentation, prediction, unit selection or concatenation. In some sense, the phonetician's task has moved from *building* models him- or herself towards supervising the training of model building algorithms. But even the necessity for this type of expertise has been called into question:

Fine grained phonetic data/topological rules are not necessarily required for generating plausible intelligible speech – as long as the carriers of those information are present in the text data (and corresponding speech recordings) used for training the system.' [25]

Thus, one could argue that whenever the need of building working applications rather than doing linguistic research is in the foreground, the phonetician's role has become minuscule at best, while the linguist remains somewhat needed for tagging the database. Roux's diagnosis seems to be correct when inspecting at the decreasing percentages of genuinely phonetic or linguistic publications at the latest international Speech Synthesis Workshops (cf. Table 1). It

<sup>1</sup>Many of the thoughts in this paper were presented as an invited talk at the ESSV 2011 meeting in Aachen and published as an abstract in [12]

# Contemporary Speech

**Wil A. Linkugel, Ronald Royce  
Allen, Richard L. Johannesen**



## Contemporary Speech:

**Contemporary Public Speaking** Andrea Thorson, Helen Acosta, Mark J. Staller, Michael Korcok, 2014-01-16

**Contemporary Public Speaking** Andrea Thorson-Hevle, Mark Staller, Michael Korcok, 2014 *Contemporary American Speeches* Wil A. Linkugel, Ronald Royce Allen, Richard L. Johannesen, 1972 *Contemporary Public Speaking*, 2016

*Notable Speeches in Contemporary Presidential Campaigns* Robert V. Friedenberg, 2002-03-30 Though many studies of contemporary campaigns focus on brief political advertisements and the growing impact of technology on contemporary campaigns the definitive statements of most candidates are still made in public addresses Friedenberg examines the first public address made by an American presidential candidate on his own behalf The circumstances giving rise to William Henry Harrison's 1840 address and the themes that he developed in that address are strikingly contemporary serving as an appropriate prelude to the examinations of contemporary political speaking that follow Those examinations focus on notable campaign speeches by John F Kennedy Barry Goldwater Richard Nixon Ronald Reagan Bill and Hillary Clinton and George W Bush Each study examines a key event that foreshadowed the speech studied Each study presents a rhetorical biography of the speaker including a discussion of the speechwriting team and preparation techniques utilized by the speaker Each study presents a thorough study of the campaign context in which the speeches were presented Each also presents a close reading and rhetorical analysis of the speech itself and observations on the impact of the speech Cumulatively Friedenberg's studies help to illustrate how even in today's high tech political environment of 30 second ads and candidate Web sites public speeches continue to play a crucial role in political campaigning Of particular interest to scholars and students involved with political communication and political American campaigning **Contemporary American Speeches** Richard L.

Johannesen, 1997 **Contemporary American Speeches** Richard L. Johannesen, Ron Allen, Ferald J. Bryan, Wilmer A. Linkugel, 2010-11-02 Forget about searching the Internet for current speeches Contemporary American Speeches contains speeches from the 1960s through the 1990s This book can serve as a core textbook in courses such as Contemporary Public Address and Contemporary Speakers and Speeches As in previous editions this edition contains speeches that typify current public scrutiny of some of society's most pressing questions NEW TO THIS EDITION Includes speeches by well known speakers The speech forms themselves assure coverage of the spectrum of contemporary public address An addition in Chapter 1 is a lengthy section on diverse public speaking traditions as influenced by culture and gender Chapter 2 contains important additions on narration as a rhetorical technique and on ideological criticism as a perspective for evaluation Chapter 2 also contains a new section on Civility in Public Discourse The language in all chapters has been changed in places to increase clarity Weymouth New Testament in Modern Speech, Acts Richard Francis Weymouth, 2020-03-16 The Weymouth New Testament in Modern Speech Acts represents a significant effort to render the biblical text of the Acts of the Apostles into contemporary language making the New Testament more accessible to modern readers Richard Francis

Weymouth employs a lucid and engaging literary style characterized by its clarity and faithfulness to the original text. This work emerges from the late 19th century desire for a more comprehensible scripture reflecting the broader context of biblical translations that aim to bridge the gap between ancient language and contemporary understanding. Richard Francis Weymouth was a prominent scholar and biblical translator known for his passion for linguistics and his commitment to making the Scriptures accessible to all. His academic background and experience as a pastor provided him with unique insights into the needs of the contemporary reader. It is this confluence of expertise and pastoral sensitivity that shaped his translation philosophy, emphasizing clarity and relevance without sacrificing the integrity of the original text. This translation is highly recommended for readers seeking a deeper understanding of the Acts of the Apostles through a modern lens. Weymouth's work is invaluable for both scholars and laypersons alike, offering a fresh perspective that elucidates the early Christian narrative in a language that resonates with contemporary audiences.

**Instructor's Manual: Contemporary American Speeches** Johannesen, 1997-06-01 [Contemporary American Speeches](#) Richard L. Johannesen, 1988

**Contemporary Speech**, 1983-08 *The Routledge Handbook of Public Speaking: Research and Theory* Stevie M. Munz, Tim McKenna-Buchanan, Anna M. Wright, 2024-04-18. Providing a comprehensive survey of the empirical research, theory, and history of public speaking, this handbook fills a crucial gap in public speaking pedagogy resources and provides a foundation for future research and pedagogical development. Bringing together contributions from both up-and-coming and senior scholars in the field, this book offers a thorough examination of public speaking guided by research across six key themes: the history of public speaking, the foundations of public speaking, issues of diversity, equity, and inclusion, considerations of public speaking across contexts, assessment of public speaking, and the future of public speaking in the twenty-first century. The evidence-based chapters engage with a broad discussion of public speaking through a variety of viewpoints to demonstrate how subtopics are connected and fraught with complexity. Contributors explore public speaking in education, business, and professional settings and political contexts and outline how skills learned through public speaking are applicable to interpersonal, small group, and business interactions. Reinforcing the relevance, importance, and significance of public speaking in individual, interpersonal, social, and cultural communication contexts, this accessibly written handbook will be an indispensable resource for public speaking instructors and program administrators. It will also be valuable reading for Communication Pedagogy and Introduction to Graduate Studies courses. [Contemporary Poetry](#) Marguerite

Wilkinson, 1923 **The Persuasive Elements in Summation Speeches of Twenty Contemporary Jury Trials** Donald Wade Hansell, 1963 **The Contemporary Review**, 1919 **Speech Communication** Gordon I. Zimmerman, James L.

Owen, David R. Seibert, 1980 [Contemporary Public Address as a Teaching Aid](#), 1951 **Actors' and Performers' Yearbook 2024**, 2023-10-31. This well-established and respected directory supports actors in their training and search for work in theatre, film, TV, radio, and comedy. It is the only directory to provide detailed information for each listing and specific

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