

NATIONAL ACADEMY OF SCIENCES

CHARLES FRANCIS HOCKETT
1916–2000

A Biographical Memoir by
JAMES W. GAIR

*Any opinions expressed in this memoir are those of the author
and do not necessarily reflect the views of the
National Academy of Sciences.*

Biographical Memoir

COPYRIGHT 2006
NATIONAL ACADEMY OF SCIENCES
WASHINGTON, D.C.



Photograph by Photo Services, Cornell University.

Charles F. Brubaker

CHARLES F. HOCKETT

January 17, 1916–November 3, 2000

BY JAMES W. GAIR

CHARLES F. HOCKETT—KNOWN to friends, students, and colleagues as “Chas”—was a leading figure in American structuralist linguistics, which flourished particularly in the four decades from the 1930s to the 1960s and did much to define linguistics as a science. Structuralist linguistics was sometimes referred to as Bloomfieldian linguistics from one of its pioneering figures, Leonard Bloomfield, who produced the seminal 1933 work *Language*. Hockett considered Bloomfield his master, and referred to his own influential 1958 work *A Course in Modern Linguistics* as “a commentary on *Language*.” Hockett was considered by many to be the brightest young contributor to linguistic theory in the framework of structural linguistics, to which he contributed a number of basic concepts and issues. But he was by no means narrow in his scope, and he firmly believed linguistics to be a branch of anthropology, to which he also made serious contributions.

Hockett was the fourth child of Homer Carey Hockett, who taught American history at Ohio State University, and Amy Francisco Hockett. He entered Ohio State in 1932 at

This obituary is largely drawn, with permission, from one by the same author that appeared in the Linguistic Society of America journal *Language* 79(3) (Sept. 2003):600-613.

the age of 16, and in the spring of 1933 took George M. Bolling's linguistics course in which the textbook was the newly published Bloomfield work referred to above. Subsequently he took the only course in anthropology available at the time, and those experiences set him on the path to his future academic career. Hockett received his B.A. (summa cum laude) and M.A. simultaneously in ancient history at the age of 20, with a dissertation on the use of the Greek word *logos* in philosophy through Plato. Years later he described the introductory section of that work as showing "despite some weird use of terms . . . the Bloomfieldian impact" (1977, p. 1). He continued at Yale University, studying anthropology and linguistics with Edward Sapir, Franklin Edgerton, George P. Murdock, and Leslie Spier, also having Morris Swadesh, George L. Trager, and Benjamin Whorf as teachers and associates. Hockett received his Ph.D. in anthropology in 1939, with a dissertation based on his fieldwork in Potawatomi. His paper on Potawatomi syntax was published in *Language* in that year (1939), and the dissertation, in streamlined form, was published as a series in the *International Journal of American Linguistics* in 1948. After a summer of fieldwork in Kickapoo and an autumn in Michoacán, Mexico, he went on to two years of postdoctoral study, including two quarters with Bloomfield at Chicago, followed by a stay at Michigan.

Hockett was drafted into the U.S. Army in February 1942. After basic training in antiaircraft artillery and a few months helping to prepare other recruits for officer candidate school, he was transferred to Army Service Forces, where his linguistic capabilities were put to work on Chinese. In late 1942 he accompanied General Stillwell's officers to their headquarters in Bengal, India, supervising their learning of Chinese while en route. Afterward Hockett was stationed in Washington and then in New York City, where he worked

under Major Henry Lee Smith in the dedicated and productive group preparing language-training materials, language guides, and dictionaries for military personnel. This unit numbered among its personnel or associates a number of the leading linguists of the time, and the effort allowed the application of a Bloomfieldian structural linguistic approach to language teaching on an unprecedented scale. It thus served as a testing ground and laboratory for the applicability and effectiveness of that approach. The materials produced there were later put to use in many postwar civilian programs, particularly in the less commonly taught languages, and they became the model for many subsequent texts. In the course of this work Hockett, with C. Fang, produced a basic course in spoken Chinese (1944) and a guide's manual for it, as well as a Chinese dictionary (1945) that included an introductory sketch of Chinese that was notable for both conciseness and clarity. He was commissioned as a second lieutenant in 1943, and after the Japanese surrender in 1945 was dispatched to Tokyo as a first lieutenant to help train U.S. troops in Japanese. In February 1946 he was separated from the army with a terminal leave promotion to captain.

After a short association with the *American College Dictionary*, he began his university teaching career in 1946, as an assistant professor of linguistics in the newly formed Division of Modern Languages at Cornell, a pioneering unit designed specifically to unite linguistics and language teaching on the university level following the model of the successful wartime effort. The division, which later morphed into the Department of Modern Languages and Linguistics, was given the responsibility for basic language teaching for virtually all languages at Cornell, a function it retained in a widening number of languages until recently. It also served as the home for the graduate and subsequently the undergradu-

ate program in linguistics. Hockett was in charge of Chinese and continued to run the Chinese program for 15 years, while teaching a range of linguistics courses and directing students. Along with him were some of the leading names in structural linguistics, both descriptive and historical, including William Moulton, Robert Hall, Frederick Agard, and Gordon Fairbanks, all of whom directed and taught in language programs and carried out productive research and teaching in linguistics. Hockett once described the situation as “in effect, a linguistics institute in permanent session” that “permitted me to spend most of my time just as I have wanted to, in linguistics and anthropology alike” (1980, p. 104). His Cornell obituary describes him as having been “the soul of the linguistics program from his first years until his retirement in 1982, serving on the committee of almost all students enrolled in linguistics during his time and serving as director of 25 Ph.D. dissertations.” (He played a major role in the training of many more.) In 1957 he was invited to become a member of Cornell’s Department of Anthropology, and he was later named the Goldwin Smith Professor of Linguistics and Anthropology at Cornell, where he remained until his 1982 retirement to emeritus status.

Hockett was elected to the National Academy of Sciences in 1974; he was also a member of the American Academy of Arts and Sciences. He served as president of the Linguistic Society of America in 1964. In 1982 he was president of the Linguistic Association of Canada and the United States and in 1986 he was the distinguished lecturer of the American Anthropological Association. He held visiting positions at a number of institutions, and throughout his career he gave invited lectures at a number of U.S. and foreign institutions. Starting in 1986, he was first visiting professor and then adjunct professor of linguistics at Rice

University in Houston, Texas, an appointment still in effect at the time of his death.

Hockett had a long and productive career. His *Festschrift* (Agard et al., 1983) contains the last available full bibliography. It lists 133 published items; he also produced many privately reproduced items presented to students and colleagues. He continued to publish after his retirement, though at a much reduced pace, as he turned his attention increasingly to other interests, especially music.

Though Hockett studied and associated with several leading figures in American structural linguistics, Bloomfield was unquestionably the major influence on and model for him. Hockett was widely considered Bloomfield's chief disciple, and the most prominent explicator and elaborator of Bloomfield's works. He was also the direct inheritor of Bloomfield's unfinished work, and he collected, edited, reworked, and published much of that work, including *Eastern Ojibwa Grammar, Texts and Word Lists*, and *The Menomini Language*. In 1970 he produced *A Leonard Bloomfield Anthology*, with a slightly revised version of his own "Implications of Bloomfield's Algonquian Studies," which had originally appeared in *Language* two decades earlier. In addition, he considered his own works on Algonquian languages, extending throughout his career, to be a tribute to the master.

Like Bloomfield, Hockett was himself a master of linguistic description, producing numerous principled, meticulous, and perspicacious descriptions of an array of languages, including not only the Algonquian studies that he was most recognized for but also Chinese, Fijian, and English. American structural linguistics, consistent with its empirical orientation, always had a strong descriptive component. Much of its impetus and many of its concepts grew out of and were inspired by the work of language description, particularly

of “exotic” languages like Amerindian ones that exhibited structures very different from those found in the more common ones of Europe. Those languages were consequently resistant to analysis in terms developed for the latter and required the development of new armament. Thus, in common with the practice of other linguists in that school, Hockett’s descriptive works often served as the vehicle for the presentation of theoretical proposals, as in his “Peiping Phonology” (1947), “Componential Analysis of Sierra Popoluca” (1947), and “Peiping Morphophonemics” (1950), among numerous others.

His directly theoretical productions were legion, and many of them were legendary, working their way into much of the work of structuralist linguists and becoming part of the conceptual equipment of several generations of students. The neo-Bloomfieldian structuralist linguistics of the 1940s and 1950s was developed by a number of productive linguists, including Bernard Bloch, George Trager, Henry Lee Smith, and Zellig Harris, but arguably Hockett was the single most productive and wide-ranging figure in the establishment of the parameters of the enterprise, and in discerning, defining, and elaborating issues that needed to be faced in that work. It is instructive that the volume *Readings in Linguistics* (Joos, 1957), which was intended to be a kind of representation of the status of the field, contained seven of Hockett’s papers, more than any other contributor (runners-up were Bernard Bloch and Zellig Harris, each with four).

Hockett’s *A Manual of Phonology* (1955), though a solidly structuralist work, was to a degree revolutionary, characteristically original, and rich in content. It attempted a principled typology of phonological systems in the spirit of Troubetzkoy and the Prague school, argued for immediate constituents in phonology in a framework that included the

syllable, and developed a system of phonology based on distinctive features and the recognition of long components. As he duly acknowledged, many of its elements were already present in the field in some form, but their combination and development were innovative and, typical of much of his work, went counter to much of the prevailing structuralist practice and doctrine. They also foreshadowed elements in later work in different frameworks, to an unfortunately often unrecognized extent.

Hockett had a remarkable gift for mathematics and for comprehending and working with mathematical and formal systems. In 1953 he produced a review of Shannon and Weaver's work on communication theory, and the information-theoretical approach became, as he put it in *The View from Language* (1977, p. 19), part of his standard intellectual equipment. One result was the inclusion in *A Manual of Phonology* (1955) of an introductory section presenting a finite state, Markovian view of speech communication and grammar, essentially of the kind that Chomsky famously critiqued in *Syntactic Structures* (1957). Hockett quite soon rejected that approach as not fitting the nature of human language, while retaining the view that information science had important contributions to make to linguistics.

In 1966 he produced an extensive paper "Language, Mathematics and Linguistics" in which he attempted to explore the formal properties of natural language that were susceptible to mathematical treatment. Ultimately, he also came to reject that endeavor as futile, except for some implications for sound change (1977, p. 19).

Hockett's best-known work was undoubtedly the 1958 textbook *A Course in Modern Linguistics*, which was widely used for many years. He considered this to be essentially a commentary on and updating of Bloomfield's *Language* and to a great extent, the pattern of topics covered in the book

echoes that earlier work, covering a wide range of areas in the study of human language, but introducing some new topics and omitting others. Though he considered the tenor of the work to be “conservative,” and presenting “the generally accepted facts and principles of the field” (p. vii), when compared to other introductory texts it appears as a highly personal, original, and sometimes challenging work. It incorporated many of his own interests and much of his work, and consistent with his anthropological orientation, he included a chapter “Man’s Place in Nature” (1973), which contained the first publication of seven of his design features of communicative systems.

Hockett’s treatment of grammatical analysis, especially syntax, in *A Course in Modern Linguistics* is especially interesting, and hindsight endows it with an element of dramatic irony, since generative grammar was looming on the horizon. It was in that book that Hockett introduced his concept of “surface and deep grammar.” It was a direct exemplification of his ability to perceive and isolate phenomena that had to be accounted for in any full account of language but that were at the time not amenable to or expressible in the canons of scientific linguistics to which he subscribed. In this case the stimulus was the result of his not failing to notice the pervasiveness and unavoidable importance of syntactic relations between noncontiguous elements, of a kind that would later be called “long distance dependencies.” As he recalled years later, “At that period in American linguistic theory . . . if two forms stood in a construction, then we expected them to be adjacent and to be parts of a larger form that we called the constitute. Apparent connections at a distance were therefore embarrassing” (1997, p. 160). Such connections were admirably amenable to transformational treatment, and thus given later

developments in transformational-generative grammar, Hockett's use of terms was to a degree prophetic.

A Course in Modern Linguistics turned out to be the last major textbook summary of American post-Bloomfieldian structuralism, since its appearance essentially coincided with the appearance of Chomsky's *Syntactic Structures* (Chomsky, 1957) and Lees's laudatory review in *Language* (Lees, 1957) that foreshadowed the ultimate dominance of generative grammar. Though neither Chomsky nor Lees appear in the index of the work or are treated in the text itself, they are listed in the bibliography, and there is a note at the end of one chapter that the transformational approach of Chomsky, Harris, and Lees came too late to be worked into the treatment (1958, p. 208).

In 1961 Hockett published a paper "Linguistic Elements and Their Relations" that in hindsight marked a turning point in his own views on language and its investigation, and to a degree signaled the end of structural linguistics as it had existed. It was an elegantly conceived attempt to solve the fundamental problem faced by structuralist descriptive linguistics: the fact that the elements that structuralist descriptive linguistics recognized as basic, such as phones, phonemes, and morphemes, did not occur in a linearly parallel and compositional hierarchy of levels as many structural linguists had envisioned. Hockett's solution was to propose grammatical and phonological strata, with the "composed of" relation holding only between elements within each stratum, and the strata linked by a mapping relation between them, but he ultimately rejected that as well.

That 1961 paper closed with a characteristically Hockettian passage raising the possibility that the kind of linguistics that led to the problem in the first place, and hence the paper itself, might be misdirected and inadequate to deal with natural language:

In closing this paper, I must for the sake of honesty mention a suspicion that cannot be followed through in detail here, but that if verified, is due to undermine the logic of most of our accomplishments in descriptive linguistics since Saussure, Sapir, and Bloomfield, or even an earlier period" (1961, p. 52).

What was at issue here was the underlying assumption that every occurring utterance in any given context had a specific "determinate grammatical structure involving an integral number of grammatical elements in specifiable structural relations with each other," which he saw as making linguistics as it stood inadequate to deal with such inescapable and natural phenomena of language in action as blends, which "are not rare, but extremely common," and "occur not only as "slips of the tongue" (whatever that means) but also as planned puns, double entendres, plays on words, and variously in poetry and advertising." In dealing with these, there were three possibilities that he saw: (1) linguistics as it was then practiced could allow them to be ignored, (2) they could be regarded as deviations to be explained with additional special machinery, or (3) they could be used as evidence for "some new and very different theory of the generation of speech that would provide at once for such "deviant" utterances and for all "regular" utterances."

At the time, Hockett was already shifting his perspective to an insistence on a more dynamic approach that focused on the hearer's competence and behavior in real time. In part, this shift was stimulated by work that he had done in the 1950s in a project with the psychiatrists Robert Pittenger and Jack Danehy that involved a number of other anthropologists, linguists, and kinesicists and produced a fine-grained analysis of the first five minutes of a psychiatric interview published in 1960. As he remarked in his 1977 preface to the reprinting of his 1960 paper "Ethnolinguistic

Implications of [Recent] Studies in Linguistics and Psychiatry”:

It was Birdwhistell’s kinesics, Smith and Trager’s paralinguistics, and the psychiatric-interview context that gradually rendered me uncomfortable with post-Bloomfieldian ‘marble slab’ grammar with its atomic morphemes and that forced me to try to look at language in action” (1977, p. 107).

The metaphor in “marble slab grammar,” of course, invokes anatomy and the dissection of a cadaver; his discomfort with that approach to grammar led to an increasing conviction that what had to be central to an adequate linguistic theory had to be a hearer-centered, dynamic approach.

Ultimately, pursuing this line of thought led him to reject what he saw as the three pillars of post-Bloomfieldian linguistics that he himself had played such a large part in developing and defending. As stated in the 1968 *The State of the Art*, these were “the characterization of language as a ‘rigid’ system; the adoption of an item and arrangement model; and the consensus that grammar and semantics were separable and should be separated”(pp. 31-32). His proposals leading toward the new kind of linguistics that he suggested in the finale of his 1964 presidential address were already present in the 1960 paper “Ethnolinguistic Implications of [Recent] Studies in Linguistics and Psychiatry,” as well as in the paper “Grammar for the Hearer” of the same year, and in subsequent works. The developing stance that he expressed there remained a dominant theme in his work from then on. In his last book he stated (emphasis as in the original), “Our fundamental question can be phrased as follows: WHEN WE HEAR SOMEONE SAY SOMETHING IN A LANGUAGE WE KNOW, HOW DO WE KNOW WHAT IS SAID” (1987, p. 2.)

The thread that ran through all this later work was his rejection of the concept of language as a well-defined system that he saw as central to generative linguistics and in part at least as having its origins in the kind of structuralist theory that he had come to reject. He made this clear at the end of his 1967 paper "Where the Tongue Slips, There Slip I," in which he took three basic mechanisms to be the fundamental elements in the generation of speech: "analogy; blending (=unresolved conflicts of analogies); and editing" (1977, p. 255). His conclusion was that:

beyond the design implied by the factors and mechanisms that we have discussed, a language has no design. The search for an exact determinate formal system by which a language can be precisely characterized is a wild goose chase, because a language neither is nor reflects any such system. A language is not, as Saussure thought, a system 'où tout se tient.' Rather, the apt phrase is Sapir's 'all grammars leak' (1977, p. 256).

Hockett's last book was the 1987 monograph *Refurbishing Our Foundations*. Its title reflected his intention to work further toward the formulation of a theory of hearing and speaking and redirect linguistic science to reexamine the nature of language in terms of how it operated in, and in fact was created within, the speaking-hearing-understanding situation. The book presented his thoughts and observations on many of what he saw to be the basic properties of language in action, and characteristically, it included not only some new proposals and insights but also proposed some unresolved questions. While many of these were original, unorthodox, and invited examination and challenge, the whole never eventuated into a clear and specific research program that others could take up and follow. For this and other reasons, it never attracted the attention that it could possibly repay, not least by stimulating new thoughts about the nature of its object and raising questions that the science of language would ultimately have to address. As he

saw it, this development of a “theory of hearing and speaking” would require operating in a region between linguistics and psychology as both were currently conceived and constrained, that is, by a kind of psycholinguistics, though he did not use that term.

Especially with the appearance of his 1968 *The State of the Art*, Hockett became known as the most vocal and prominent critic of Chomsky and generative grammar, a role in which he was cast, for example, in Mehta (1971) and elsewhere, as in the subheading of his obituary in the *New York Times* describing him as “one who did not buy Chomsky’s revolution” (Fox, 2000). Actually, when transformational grammar emerged in both the Harris and Chomsky variants, Hockett, like many other structuralists, welcomed it as an important and innovative development in syntactic theory that held great promise for dealing with problems, such as nonadjacent relations, that had proved intractable in immediate constituent syntactic analysis. In his 1964 presidential address to the Linguistic Society of America, he went so far as to characterize Chomsky’s *Syntactic Structures* as “one of only four major breakthroughs in the history of modern linguistics.” In his 1964 Linguistic Institute lectures on mathematics and linguistics, he made a number of approving references to Chomsky’s work, but by the time the work was published in 1966 he had added a footnote to the proof in the preface that those “conciliatory remarks” were the result of his “misunderstanding,” and that “[while not passing] detailed judgment on Chomsky’s frame of reference . . . let the record show that I reject that frame of reference in almost every detail” (1966, p. 156).

The footnote itself noted that the turnaround arose from a reading of Chomsky’s *Aspects of the Theory of Syntax* (Chomsky, 1965) that had appeared in the interim. *The State of the Art* gives as a major reason for his rejection of

the generative framework: that it viewed language as a well-defined system in the computational sense, as opposed to his view, characterized above, that it was ill-defined “though characterized by various stabilities” (1968, p.88). In his own changed perspective he had come by then to incorporate as crucial what he saw as the “true” Bloomfieldian conception that grammar, though not phonology, was inescapably and inextricably entwined with meaning, and unable to be analyzed apart from it.

Another factor that entered here was that *Aspects* made clear Chomsky’s rationalist orientation in a way that *Syntactic Structures* had not. As a true Bloomfieldian, Hockett found that mentalistic stance thoroughly unpalatable, considering it to be unscientific by his own canons of science.

There was also a more personal and attitudinal element. In his 1964 address to the Linguistic Society of America, Hockett had included a statement deploring the aggressive confrontational style that marked even some of the earlier transformational work he cited. Despite the heated and not infrequently personal rhetoric that marked the argument on both sides and his own sometimes intemperately expressed personal feelings (1977, p. 61; Mehta, 1971, pp. 217-221), he characteristically strove, as his view of science demanded, to keep an open mind to the possibility that the other view might be right. As late as 1997 he remarked:

Indeed, Chomsky’s paradigm may turn out to afford the best path toward the ultimate solution to our collective scientific problem; namely, the determination of the place of language in the universe. Some people are convinced that that is so, but no one can know for sure. My own impression is quite otherwise (1997, p. 162).

The State of the Art did not, of course, slow the march toward dominance of the generative paradigm in its successive forms, and it would be unfortunate if Hockett were to be remembered primarily as one who fought a futile

rearguard action against the dominance of the generative paradigm. To the extent that such is the case it can lead to easy dismissal and failure to take account of and appreciate his original and extensive contributions to the field of linguistics and beyond.

His work in linguistics was by no means limited to synchronic theory and description. Throughout his career he continued to hold to the belief—in common with Bloomfield, Sapir, Saussure, and their nineteenth-century forbears—that the investigation of language change was an integral part of the science, and his output included important historical analyses, notably in Algonquian but in other languages as well, including Central Pacific languages and Old English.

Hockett maintained the view that diachronic investigation had laid the essential foundation for synchronic study, and that the latter had returned the favor. The two enterprises thus informed each other, and any synchronic theory and description had to be at the very least compatible with what we knew and discovered about language change. In his later work the interaction between the diachronic and the synchronic was even more intimate, to the point that the distinction essentially disappeared. In the tradition of historical linguistics in which he worked, the three central mechanisms of change were sound change, analogy, and borrowing—and analogy accompanied by editing—had become the fundamental mechanism in his dynamic theory of language generation.

Hockett's talents, scholarly interests, and productivity extended well beyond linguistics proper. He cast a wide net in his consideration of topics for investigation, including among other things the Whorfian theory, slips of the tongue, scheduling of linguistic and nonlinguistic events, animal communication, jokes, and the nature of writing systems

and their relation to speech. He collected a number of his papers on those topics in the 1977 book *The View from Language*. Its title was emblematic of his belief that the study of language constituted a unique locus for gaining insights and knowledge in other fields of inquiry. From the range of the papers included in it one can gather the range of his interests beyond what is generally considered to be linguistics as well as the power of his intellect in pursuing them.

His Ph.D. was in anthropology, and he never ceased to consider linguistics as a component of that field, that is, as “linguistics wrapped in anthropology” and as that branch of science devoted to the discovery of the place of human language in the universe. He believed that, as he remarked in his 1980 autobiographical interview “Preserving the Heritage,” “Linguistics without anthropology is sterile; anthropology without linguistics is blind” (p. 100).

Hockett considered his most important work to be his 1973 anthropology text *Man's Place in Nature*. That book, with a bow to Thomas Huxley's work of the same title, raised and addressed very basic and challenging questions related to that enterprise. Hockett brought to bear on them an impressive quantity of scholarship from several fields and numerous original insights. In the chapter on language entitled “Man as Chatterer: the Tongue Is a Fire” he set forth his conviction that the wherewithal for acquiring language is “locked into” the genes, and that its “appearance is as inevitable as menarche or the sprouting of axillary hair,” but that it also required “nurture in the bosom of an ongoing social group” so that “neither of these suffices without the other” (p. 101). The investigation of language was crucial because “an understanding of language is . . . essential for any understanding of man's place in nature” (p. 98).

Here and in a later chapter titled “The Emergence of Man: Fire and Talking” he proceeded to present his views on the architecture of language and on productivity and change, differences among languages and universals, and the origin of language. The scope was daring and the issues and challenges remain, but the work remains well worth reading, if for no other reason than to set some more recent works by others in perspective.

One of his most important contributions was his origination and development of the design-feature approach to the comparative study of animal communication, including the human. He began with seven features appearing in the 1958 textbook and in the 1959 paper “Animal ‘Languages’ and Human Language.” Those seven subsequently underwent numerous expansions and revisions, eventuating in 13 features as they appeared in his 1960 paper “Logical Considerations in the Study of Animal Communication” and the popularized version in *Scientific American* entitled “The Origin of Speech.” These were part of a wider and more daring effort to determine the origin of human language—a subject of inquiry that was far from popular when he undertook it, and which led to the much reprinted 1964 paper with Robert Ascher on the human revolution.

Hockett’s design features have not only found their way into linguistics texts but also have been crucially incorporated into work within the field of animal communication. A Google search of the Web under his name will immediately show by the sheer number of citations how widely they have been called upon in several fields. For Hockett the most important of the features that marked human language was duality of pattern, by which all of the meaningful elements of language were expressed in terms of meaningless elements: in the case of human language, phonology. Though his concept of the architecture of grammar changed

radically, his belief in this basic feature of language as crucial remained throughout, though differing in detail.

Hockett did not limit his productions to dry academic presentations. In 1955 he contributed a clear popularized account of structural phonemics field methods under the guise of “How to Learn Martian” to the magazine *Astounding Science Fiction*. Among his conclusions in *Man’s Place in Nature* was that “the most important special factor in primate learning and behavior is play” (1973, p. 74), and not only did he recognize its presence in language but also exercised it. His writings, even among the most serious, reflect his valuing of the aesthetic capabilities of language, and the delight that he took in finding and using the right turn of phrase. Metaphors abound in his work, and are used to effect, often serving to make clear a difficult point. His output is also studded with apt quotations and examples from literature ranging from the Bible and Shakespeare through T. S. Eliot, Nero Wolfe, Winnie the Pooh, and Dr. Seuss, and there are numerous oblique allusions as in the title “Where the Tongue Slips, There Slip I” (1967). He included openness, aka creativity, as one of the basic design features of human language, but he also delighted in the actual creative use of language and the witty turns that it made possible—in short, in having fun with it.

In a somewhat less serious vein, he indulged in such conceits as giving birth (in his head, as was the case with Athena) to one Casimir Cauchemar, adjunct professor of Etruscan rhetoric of the University of Psonch. Hockett’s alter ego, Cauchemar, then presented him with a paper “Innovation and Creativity,” as a tattered offprint from *The Harvard Journal of Teleology and Cornucopia*, which the recipient duly edited and published in *The View from Language* (1977)—a tongue-in-cheek effort that afforded him the delicious opportunity to comment on himself. Cauchemar

also included among his publications a 1968 volume of verse, *Rugged Nuggets*, which included several poems from "The Red Boat," a version of the Rubaiyat in the form of limericks, which Hockett had earlier distributed to friends. The Cauchemar volume bore an introduction by one Charles F. Hockett and a dedication to several poets that he knew "in the hope that they will never lose sight of the humor intrinsic in all seriousness," which reveals much about the editor/author himself.

Hockett contributed eight poems to the volume *The Linguistic Muse* (Napoli and Rando, 1979), and composed numerous others, especially lyrics for his own musical compositions.

Hockett is survived by a loving family. He had a long and happy marriage to the former Shirley Orlinoff, whom he wed while on furlough in 1942. She became a professor of mathematics at Ithaca College and the author of a half-dozen textbooks, typed by him, a collaboration that reinforced his own considerable capability in mathematics. They had five children: four girls (Alpha Hockett Walker, Amy Robin Rose, Rachel Hockett Youngman, and Carey Beth Hockett) and a son (Asher Orlinoff Hockett), as well as five grandchildren.

Music played a vital part in his life. He possessed a deep love for music and a keen ear, and he engaged in a lifelong practice of musical performance and composition. His compositions ranged from the witty and light to the serious and sophisticated, and from short pieces through chamber works, to a full-length opera, *The Love of Doña Rosita*, based on a play by F. García Lorca, *Los Títeres de Cachiporra*, which received its premier performance by the Ithaca Opera at Ithaca College.

Music was also a vital center of his home life. He and his wife, Shirley, were early members of the Ithaca Concert

Band, which closed every concert with “Stars and Stripes Forever,” featuring Hockett on the piccolo, and the group often played his Ithaca-inspired composition “The Small Plum” (contra “The Big Apple”). Everyone in the family played an instrument, and they regularly conducted home musical performances, often of his compositions. Two of his children became professional musicians and a son-in-law is principal oboist with the Los Angeles Philharmonic. Throughout the last decades, as Hockett turned his efforts increasingly to music, he and Shirley were unstinting in their organizational efforts and financial support and indefatigable in the energy they devoted to bringing music to the Ithaca public. Their leadership and hard work were a vital part in establishing the Cayuga Chamber Orchestra, which after more than a quarter of a century continues to enrich the musical life of the Ithaca community. The effects of their dedication and generosity are lasting and tangible in the Charles F. Hockett Music Scholarship, the Shirley and Chas Hockett Chamber Music Concert Series, and the Hockett Family Recital Hall at Ithaca College. Fittingly, Hockett’s memorial service was in great measure a concert at that institution that included several of his own compositions, some of them played by members of his family.

Roman Jakobsen was once quoted as saying, “It is very difficult for me to know what Hockett’s position on any question is. . . He changes his mind every day” (Mehta 1971, p. 235). There is a kernel of truth in this, since throughout his career he changed his theoretical views and was not hesitant to reject positions that he himself had espoused, developed, and argued for. However, one can consider that as more of a virtue than a vice, as the inevitable result was an active, questioning, and restless mind that was incapable of accepting any theory as immutable and necessarily true when faced with evidence to the contrary. It was also the

product of a questing temperament that was given to ranging into areas whose inclusion in or even relation to the field or subfield at hand were not immediately obvious. At times these qualities resulted in his apparently espousing two views at the same time in an overlapping fashion, with the demise of one preceded by the sprouting seeds of the other.

Hockett was in essence a “God’s truth” linguist in Householder’s terminology (Householder, 1952, p. 260), dedicated to discovering the nature of human language and its place in humanity and the universe, and willing to pursue any clues toward that end. However he changed his views, not least on his own work, he never wavered from his Bloomfieldian commitment to the idea that the only valid generalizations about language were empirical generalizations, and from a conviction that whatever hypotheses or theoretical leaps one might make it was an absolute requirement to be responsible to the observable data. In short, “Linguistics is either an empirical science or it is nonsense” (Chevillet, 1996, p. 183).

Coupled with that commitment to empirical science, however, was his love for language and his marvelous capacity for intuition into its structure, such that a colleague once characterized him by saying that in his Bloomfieldianism there was always a Sapir struggling to get out. That remark is insightful and essentially true, but without our over-psychologizing (which he would have abhorred), it was clearly more complex than that. To some of us who knew and worked with him, what appeared to be at work was an intersecting play of a first-rate intelligence, a lively intuition, and a conscious commitment to rigor and precision, not infrequently challenged by an honest inability to exclude interesting observations or ideas, even when they did not support the analysis he was pursuing. This could lead to a

kind of internal tension that one could sense in much of his work, and even at times in personal interactions with him; one of its effects was that his work was often more interesting and sometimes more prophetic than that of many colleagues.

One may charge Hockett with being subject to change of mind but never with being intellectually dishonest, unoriginal, or uninteresting. This carried over into his classes. When attending his lectures, one always got the feeling that there was a first-class mind directly engaging some problem as new and compelling. He would not infrequently pursue some line of investigation, and then reject, sometimes abruptly, the analysis that he had been developing as proving inadequate or not properly accounting for the facts. This could be disconcerting to those students who wanted to fill their notebooks with accepted truth, but to others it was exciting as the model of how a scientific investigator proceeds and of the difficulty of arriving at whatever truth there existed to be found.

In 1993 he captured the fundamental approach that had remained constant throughout his long career. Fittingly, it was included in a paper on Algonquian, and invoked Bloomfield:

Time and again, what at first appears to be a knotty problem of linguistic analysis smooths [sic] out if, approaching a language with patience and reverence, we relax and let it show us how it works—instead of trying to force matters into some conceptual frame of reference we have imported, perhaps without realizing it, from elsewhere. This is how Bloomfield dealt with the languages he studied” (1993, p. 4).

Hockett always had a sense of the science of linguistics as an ever-developing and social enterprise with a historical trajectory that demanded an attitude and behavior that he held up as a model for himself as well as others. In his

presidential address to the Linguistic Society of America (1965, p. 204) he said:

The scholar earns immortality only of the sort that he bestows on those that have gone before him. As we extend the power and flexibility of our new tools, let us always temper passion with humor; let us never favor, nor disfavor, the new simply because of its novelty; let us dedicate our talents to building our heritage, not to tearing it down, praising our predecessors for their wisdom and ignoring their folly—replacing a nail here or a plank there when we must, but always with humility rather than Schadenfreude when a bright old idea must give way to a bright new one.

For those of us who were fortunate enough to have learned from him, there can be no better model and remembrance.

REFERENCES

- Agard, F. B., G. B. Kelley, A. Makkai, and V. Makkai, eds. 1983. *Essays in Honor of Charles F. Hockett*. Leiden: E. J. Brill.
- Bloomfield, L. 1933. *Language*. New York: Holt.
- Chevillet, F. 1996. An interview with C. F. Hockett. *Études Anglaises* 49(2):180-191.
- Chomsky, N. 1957. *Syntactic Structures*. The Hague: Mouton.
- Chomsky, N. 1965. *Aspects of the Theory of Syntax*. Special Technical Report No. 11 of the Research Laboratory of Electronics. Cambridge, MA.: MIT.
- Fox, M. 2000. Charles Hockett, 84, a linguist with an anthropological view: One who did not buy Chomsky's revolution. *New York Times*, Nov. 13, p. B7.
- Householder, F. W. 1952. Review of Zellig S. Harris, *Methods in Structural Linguistics*. *Int. J. Am. Linguist.* 18(4):260-268.
- Joos, M., ed. 1957. *Readings in Linguistics*. Washington, DC: American Council of Learned Societies, pp. 217-228.
- Lees, R. B. 1957. Review of *Syntactic Structures* by Noam Chomsky. *Language* 33:3.
- Mehta, V. 1971. John is easy to please. In *John Is Easy to Please: Encounters with the Written and the Spoken Word*. New York: Farrar, Straus, and Giroux, pp. 173-240.
- Napoli, D. J., and E. N. Rando, eds. 1979. *The Linguistic Muse*. Carbondale, IL: Linguistic Research.

SELECTED BIBLIOGRAPHY

1939

Potawatomi syntax. *Language* 15:235-248.

1944

With C. Fang. *Spoken Chinese: Basic Course*. Military edition published (without authors' names) as a War Department Education Manual. Civilian Edition. New York: Holt.

1945

With C. Fang. *Guide's Manual for Spoken Chinese*. Military edition published (without authors' names) as a War Department Education Manual. Civilian Edition, New York: Holt.

With C. Fang, eds. *Dictionary of Spoken Chinese*. Military edition only published (without authors' names) as War Department Technical Manual 30-933. Authorized revision prepared under the supervision of R. A. Miller by the staff of the Institute of Far Eastern Languages, Yale University. New Haven: Yale University Press 1966. (No credit given in this version to the editors or other workers on the original military edition).

1947

Peiping phonology. *J. Am. Orient. Soc.* 67:253-267.

Componential analysis of Sierra Populca. *Int. J. Am. Linguist.* 13:258-267.

1948

Potawatomi. *Int. J. Am. Linguist.* 14:1-4.

Implications of Bloomfield's Algonquian studies. *Language* 24:17-131.

1950

Peiping morphophonemics. *Language* 26:63-85.

1953

Review of C. L. Shannon and W. Weaver, *The Mathematical Theory of Communication*. *Language* 29:69-93.

1954

Two models of grammatical description. *Word* 10:210-234.

1955

How to learn Martian. *Astounding Science Fiction* 55:97-106.
A Manual of Phonology. Indiana University Publications in Anthropology and Linguistics, Memoir 11. Baltimore: Waverley Press.

1958

Eastern Ojibwa Grammar, Texts and Word Lists. Ann Arbor, MI: University of Michigan Press.
A Course in Modern Linguistics. New York: Macmillan.

1959

The stressed syllabics of Old English. *Language* 35:575-597.
 Animal "languages" and human language. *Hum. Biol.* 31:32-39.

1960

Ethnolinguistic implications of [recent] studies in linguistics and psychiatry. *Report of the Ninth Annual [1958] Georgetown Meeting on Linguistics and Language Study*. Institute of Languages and Linguistics of Georgetown University Monograph Series no.11:175-193.

Grammar for the hearer. In *The Structure of Language in Its Mathematical Aspects*, ed. R. Jakobsen. American Mathematical Society Proceedings of Symposia in Applied Mathematics 12:220-236.

Logical considerations in the study of animal communication. In *Animal Sounds and Communication*, eds. W. E. Lanyon and W. N. Tavolga. Washington, DC: American Institute of Biological Sciences Symposium Series 7:392-432.

The origin of speech. *Sci. Am.* 203(3):88-89.

With R. E. Pittenger and J. J. Danehy. *The First Five Minutes: A Sample of Microscopic Interview Analysis*. Ithaca, NY: Paul Martineau.

1961

Linguistic elements and their relations. *Language* 37:29-53.

1962

Bloomfield, Leonard. *The Menomini Language*. Ed. Charles F. Hockett. William Dwight Whitney Series of Yale University. New Haven: Yale University Press.

1964

With R. Ascher. The human revolution. *Curr. Anthropol.* 5:135-168.

1965

Sound change. *Language* 41:185-204.

1966

Language, mathematics and linguistics. In *Current Trends in Linguistics*, vol. 3, *Theoretical Foundations*, ed. T. A. Sebeok, pp. 155-304. The Hague: Mouton.

1967

Where the tongue slips, there slip I. In *To Honor Roman Jakobson*, ed. Thomas A. Sebeok, pp. 910-936. The Hague: Mouton.
Language, Mathematics and Linguistics (reprint with a new preface). *Janua Linguarum, Series Minor* 90. The Hague: Mouton.

1968

The State of the Art. The Hague: Mouton.
Rugged Nuggets (as Casimir Cauchemar). Cayuga Depths, NY: The Humanist Backlash Press.

1970

A Leonard Bloomfield Anthology. Bloomington, IN.: Indiana University Press.

1973

Man's Place in Nature. New York: McGraw-Hill.

1977

The View from Language. Athens, GA: University of Georgia Press.

1980

Preserving the heritage. In *First Person Singular: Papers from the Conference on an Oral Archive for the History of American Linguistics*, eds. B. H. Davis and R. O'Cain, pp. 99-107. Amsterdam: John Benjamins.

1987

Refurbishing Our Foundations. Amsterdam: John Benjamins.

1993

The Rice Papers, First Installment, June 1993. Photocopy. Rice University.

1997

Approaches to syntax. *Lingua* 100:151-170.

