Charles Dickens started his famous novel *A Tale of Two Cities* by saying “It was the best of times, it was the worst of times.” This is a most appropriate introduction to this guest commentary on the impact of the Journal of Clinical Microbiology (JCM) on clinical microbiology. A full appreciation of this impact can come only from a historical perspective. Clinical microbiology and clinical microbiologists, after a protracted struggle, reached a pinnacle but are now, and have been for 1 or 2 years, at a crossroads.

Clinical microbiology slowly emerged from a dimly lit shadow that at best was part of the clinical pathology laboratory of medium and large hospitals (i.e., those with 150 to 500 or more beds) in the 1950s. Technologists were assigned to perform diagnostic bacteriology, most often on a rotating basis. As a rule they disliked the “bacti bench” because there was little or no training available and the only reliable books on diagnostic bacteriology were Schaub and Foley’s text and a section in Opal Hepler’s laboratory book on clinical pathology. These were cookbook-style texts with instructions on how to prepare cultures and how to identify the ensuing growth into a few, uncomplicated directions and instructions of how to deal expeditiously with clinical specimens for culture and identification as a section within the ASM. The heirachy of “senior specialists” who were members of the ASM (it was the Society of American Bacteriologists before the name change) were trying with very limited success to gain recognition within the ASM as clinical microbiologists. These were microbiologists whose primary place of employment was in the clinical laboratory of a hospital. These outcasts met informally and unofficially in a cloud of secrecy at ASM meetings and after 2 years organized themselves as clinical microbiologists. There were many technical problems to be addressed and resolved—not to mention organizational ones. Most of the problems revolved around techniques; methods; reporting, interpretation, and significance of results in terms of pathogenesis and invasiveness; and most importantly how to do reliable antibiotic sensitivity tests. New antibiotics were discovered and approved at a fairly rapid pace despite the foot-dragging of the Food and Drug Administration. Pharmaceutical companies were manufacturing discs impregnated with high concentrations of their antibiotics to be used in in vitro assays, presumably to guide physicians in choosing the correct antibiotic for treating infectious diseases.

Without question the advent of numerous antibiotics in the 1950s and 1960s ignited a sharp increase in the attention given to the laboratory diagnosis of infectious diseases. Initially clinicians were only interested in the etiologic agent because they felt that penicillin, tetracycline, or streptomycin (or possibly one of the few available sulfa drugs) would result in a cure and, furthermore, that many of the major infectious diseases would be brought under control or eliminated. Surgeons also predicted that postsurgical infections could be prevented and that the rapid demise of infectious diseases as a major health problem would be possible.

At about the same time, a small but vocal group of microbiologists who were members of the ASM (it was the Society of American Bacteriologists before the name change) were trying with very limited success to gain recognition within the ASM as clinical microbiologists. These were microbiologists whose primary place of employment was in the clinical laboratory of medium to large hospitals. Some of these hospitals were part of a university medical center; others were large, independent, free-standing hospitals. The goals of these budding clinical microbiologists were to become organized, gain recognition, and establish a means of communication. Initially an unofficial organization was started by holding informal get-togethers at national ASM meetings. We began to push for official recognition as a section within the ASM. The heireachy of “senior and elder statesmen” within the Society’s medical microbiology groups looked at us with complete disdain and disfavor. We were counselled to forget our petition as it would not be accepted and was not in the best interests of the ASM. We persisted, and in 1962 the Clinical Microbiology section was officially recognized and our goals began to be implemented. In 1964 the first seminar or round table on Current Topics in...
Clinical Microbiology at the annual ASM meeting was held. It was an overwhelming success! These seminars were extremely popular and became a permanent feature of the ASM for more than 30 years. On many occasions some or all of the presentations were published as handouts or in softcover booklets. This further increased the pressure to organize within the ASM structure.

In 1964 the Clinical Microbiology section was officially formed and very rapidly became the largest section (and, subsequently, the largest division) within the Society’s organizational structure. With this recognition of clinical microbiologists the ASM’s membership increased dramatically. The ridicule and railery previously encountered from the basic researchers began to diminish, and clinical microbiology was regarded as an applied form of microbiology.

The number of newly discovered or semisynthesized antibiotics began to skyrocket. Broad-, middle, and narrow-spectrum antibiotics were proposed for increasing numbers and types of bacterial diseases and a few mycotic infectious diseases and were being pushed by the pharmaceutical industry. Clinical microbiologists became acutely aware of the need for a means of technical and scientific information exchange. Approved or established techniques for isolating, identifying, and determining antibiotic profiles were few and far between, with no overall means of communication. In 1969, Charles C. Thomas, Publisher, undertook the job of publishing a series of books on clinical microbiology. These were largely the proceedings of symposia or multiauthored technology books and were well received but were published at irregular intervals. In 1966, the Newsletter of Clinical and Diagnostic Microbiology was launched. It was published quarterly and consisted of newsworthy reports of new or improved techniques, unusual cases of infectious diseases, antibiotic susceptibility testing, etc. This newsletter was mailed to about 500 clinical microbiologists throughout the United States.

In 1967, for the first time a clinical microbiologist, I myself, was appointed to the editorial board of Applied Microbiology, with the specific purpose of soliciting and reviewing manuscripts on clinical microbiology. Business was terrific! I was subsequently appointed as an editor of Applied Microbiology, and a section on clinical microbiology was established for this ASM journal.

Almost simultaneously the Society undertook the publication of Cumulative Techniques and Procedures in Clinical Microbiology (“Cumitech”), with each issue devoted to a specific topic and authored by authoritative individuals. Three or four Cumiteches were slated to be published annually; however, this schedule was not always kept, but the Cumitech series has persisted and new issues currently are published with regularity.

The interest in and growth of the section on clinical microbiology in Applied Microbiology was phenomenal. It soon became the largest section in the journal, at the expense of other sections because of page limitations for each journal. The Publications Board strongly recommended and the governance of the ASM agreed to split off the clinical microbiology section and establish JCM. The first issue of JCM was published in January 1974. In 1999, JCM will celebrate 25 years of publication. This is the first journal devoted to clinical microbiology, and it is appropriate at this time to evaluate the impact of JCM on clinical microbiology and microbiology as a whole. In general terms the impact of JCM has been and is nothing short of phenomenal.

First, let me say a word about the financial effect of JCM on the ASM. There were times in the 1970s when the Society operated at or near a loss. Several of the well-established scientific journals posted a loss, and where possible, income from other sources was used to offset this loss; however, such income had its limitations. In mid-1973, when the future publication of JCM in January 1974 was announced, there was an unprecedented rush on the part of many commercial laboratory equipment and reagent companies to sign contracts or otherwise commit to a specified advertising budget in the first year of JCM publication, with options to continue for future volumes. From that day forward JCM has always operated in the black; this success was due to several changes in the attitudes of many microbiologists and their acceptance of clinical microbiology as a bona fide subspeciality of the science. Simultaneously the growth of new technology and methodology was on a fast track. Industry was becoming increasingly interested in the in vitro assay of antibiotic susceptibility, new or improved techniques for isolating etiologic agents associated with infections, and the rapid and accurate identification of such agents. The Centers for Disease Control and Prevention (known at that time as the Communicable Disease Center) had launched a major program in the laboratory evaluation of the efficiency and accuracy of newly marketed reagents and instruments for performing susceptibility tests and identifying isolates from clinical specimens. The interest in developing new reagents, new or improved technology, and the technological approach to the rapid and accurate diagnosis of infectious diseases grew unabated. Applied, or perhaps better termed, clinical microbiology research became popular. Funds and support to conduct research and product development and evaluation were readily available. Colleges and universities were producing clinical microbiologists at the bachelor, master, and doctorate degree levels. In time an ASM-sponsored postdoctoral training program was developed, with 22 programs at various universities or Public Health Service agencies. Programs for the certification and credentialing of microbiologists were established within the ASM. Membership in the ASM soared and the clinical microbiology division rapidly became the largest division within the ASM hierarchy.

In short order, two additional printings were required, and over 20,000 copies of the first edition of MCM were sold! In 1974, the second edition of MCM was published, and simulta-
neously JCM moved from the preparatory phase to actual publication.

The progressive role of clinical microbiology and the continued recognition of clinical microbiologists as peers within the Society ultimately led to the establishment and publication of the first edition of the *Manual of Clinical Laboratory Immunology*. These publication activities created a very positive profit center for the Society and made possible the continued growth of ASM programs, including clinical microbiology activities.

The growth of JCM is best defined by describing the expanding role of clinical microbiology in the delivery of health care today. Technological advances in molecular biology, emerging infectious diseases, detection and surveillance of problematic antibiotic-resistant isolates, molecular epidemiologic typing, detection of pathogenic factors, and the evaluation of automated diagnostic instruments are but a few of the kinds of papers published in current issues of JCM. Authors from all countries of the world submit their manuscripts to JCM. Clinical microbiologists throughout the world have access to new, reliable, and up-to-date information on clinical microbiology practices. The story doesn’t stop here. Just as JCM was split off *Applied Microbiology*, two new journals now published by the ASM are derived from JCM. These are *Clinical Microbiology Reviews* (now in its 11th year of publication) and *Clinical and Diagnostic Laboratory Immunology*, the starting date of which was January 1994. JCM is rightfully designated the benchmark of progress in clinical microbiology. In my judgement it is now appropriate to consider another JCM-derived journal—the “Journal of Applied Clinical Microbiology.”

At the international level infectious diseases rank behind cancer and cardiac disease in annual mortality. Substantial research efforts are well under way to better diagnose, treat, and prevent each of these major diseases. It is assuring to know that JCM will continue to assist clinical microbiologists in the fulfillment of their role in the control of infectious diseases.

The bottom line is that JCM has served clinical microbiology in every conceivable way and will continue to do so in the future.