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In this column, we provide interesting historical briefs from the Journal articles of past. The purpose of this column is primarily entertainment, but we hope it will also stimulate your thinking and reflection on the Society's history, how far we have come in the industry, and (sometimes) how some things never change. This column is sponsored by Television Broadcast Technology, Inc., since March 2001 (<http://ieeexplore.ieee.org/document/7257346>).

25 Years Ago in the Journal

The September 1995 *Journal* published in “Real-Time Locus Indication System for a Flying Golf Ball” by Y. Yamanouchi, K. Enami, D. Kato, T. Yamada, and T. Kageura: “Recently, the demand for new, effective products for live TV sports programs, such as the Olympic Games, has been increasing. It is important to make the action of the games easy to understand on sight and to provide TV audiences with the feeling that they were actually there.... The authors have developed a new system called *Shot View*, described below. This system has been applied to display the flight of a golf ball and has been used in actual golf broadcasts. ... **Figure 4** shows the overall configuration of Shot View. The angular velocity of two cameras is detected from a gyrosensor and is then sent to an analog-to-digital (A/D) conversion box. The angular velocities are then serially transmitted to a position calculation unit and a locus display unit in the outside broadcast (OB) van.... The Shot View system was used for the tee shots from the 18th hole of the Pro Senior Golf broadcasts on 4–5 June, and the

Philanthropy Golf broadcasts on 2–3 July 1994, in Japan.” For the full article, see <https://ieeexplore.ieee.org/document/7241213>.

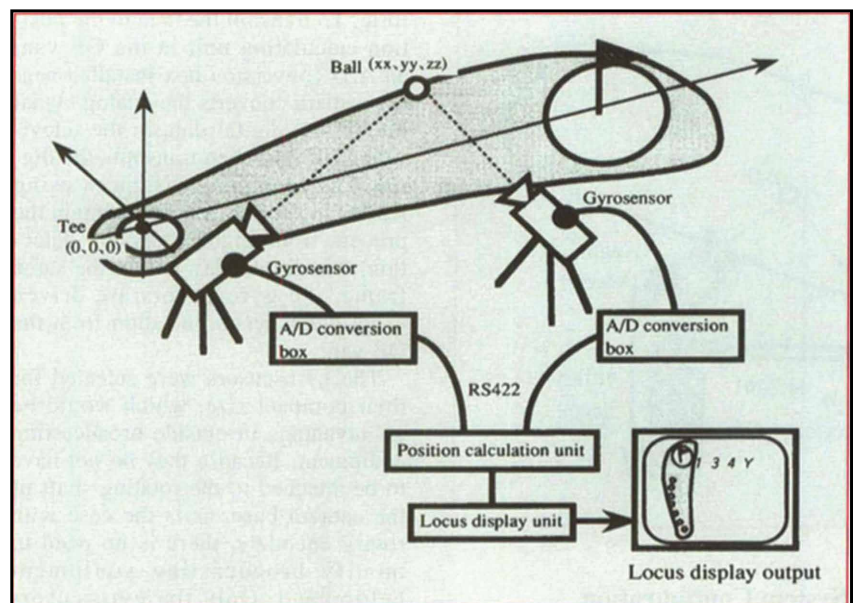
50 Years Ago in the Journal

The September 1970 *Journal* published in “Disposal of Waste Effluents from Motion-Picture Film Processing” by Lloyd E. West: “The chemicals used in motion-picture film processing are evaluated in terms of typical sewer code and stream standard requirements. Methods are suggested for the reducing of the discharge of wastes, for example, by the

regeneration of bleach, the recovery of silver, and the use of squeegees. The use of activated-sludge treatment for processing wastes is recommended to reduce the oxygen-demanding chemicals to an acceptable level. Information is cited for estimating the processing waste load in terms of Biochemical Oxygen Demand. Development work on the use of reverse osmosis to recover and reuse the chemicals in the bleach and fixer washes has been described, although the practical application of this approach cannot yet be recommended. The minimal amounts of volatile chemicals used in processing are not expected to produce significant air pollution.” For the full article, see <https://ieeexplore.ieee.org/document/7233996>.

75 Years Ago in the Journal

The September 1945 *Journal* published in “8000 Pictures per Second” by Howard J. Smith: “A brief outline is given for the



Overall configuration of the Shot View system (Fig. 4, *SMPTE J*, Sep. 1995, p. 608).

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development and design of the Western Electric Fastax high-speed motion picture camera. This camera takes up to 8000 pictures per second on 8-mm film... In order to take motion pictures at this ultra-high speed, the film must be propelled through the camera at a velocity of 100 ft/sec, or approximately 70 mph. ... In order to be able to project this film in a standard projector, there must be some control exercised to hold the film in the image plane and to hold the picture frame in synchronism with the perforations. ... In addition to smooth film movement at high speed, it is necessary to provide suitable optical compensation to allow the image to follow the movement of the film during the exposure period for each frame. ... If the prism rotates at 60,000 rpm, pictures are taken at the rate of 8000 pictures per second, and each picture receives an exposure of approximately 33 μ sec. ... The most convenient type of lighting

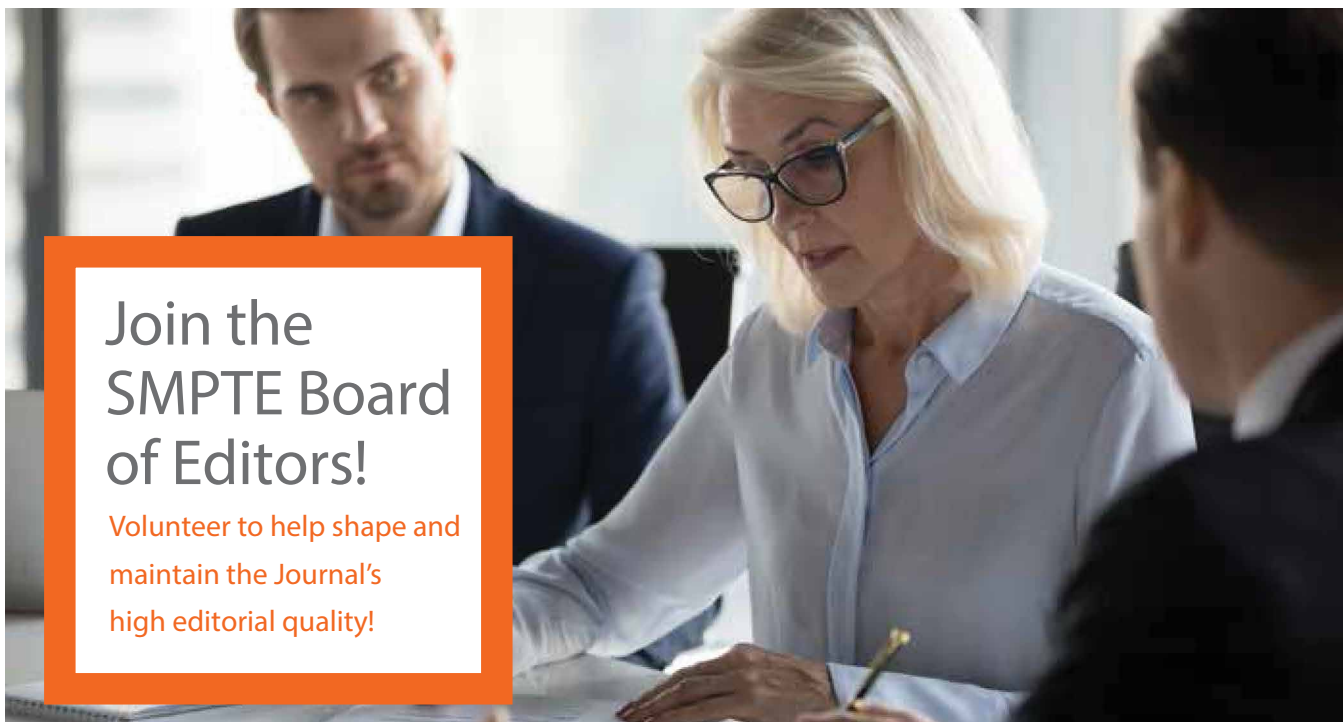
units for this purpose is the tungsten filament 'sunspots' found in any well-equipped motion-picture studio. The intensity of these lights is increased for high-speed work by operating the lamps as close to the melting point of tungsten as is practicable." For the full article, see <https://ieeexplore.ieee.org/document/7252203>.

100 Years Ago in the Journal

The October 1920 *Journal* published in "Extracts of Action taken at Board of Governors Meeting, Hotel Miami, Dayton, Ohio, October 10, 1920" by L. C. Porter (Secretary pro tem): "The Treasurer stated that the Society's finances were in a healthy state, having \$2459.24 cash in the bank. ... Mr. Burrows suggested supplying salesmen of motion-picture equipment with copies of the Transactions to be purchased by the salesmen or the concerns they represent... It was decided to charge \$0.25 for any of the Transactions previous to those of the Pittsburgh meeting; \$1 for the

Pittsburgh Transactions and all later ones until further action is taken. ... It was decided that at the next convention, the papers will be printed and distributed in advance and that at the meeting, synopses only will be read, devoting the majority of the time to discussion. Each speaker is to be limited to a definite time. A court stenographer is to be provided to record the discussions. These will be edited by the Papers Committee and appear with the complete text of the paper in the Transactions. ... The secretary was instructed to send one set of the Transactions of each meeting to any and all other societies throughout the world whose work is similar to or bears on that of our own and to secure their transactions in exchange; these transactions will be extracted by a committee and presented as part of the Papers Programme at each meeting hereafter. It was decided to use the Society's official seal on all future membership cards." For the full article, see <https://ieeexplore.ieee.org/document/7230040>.

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