

- (a) Extension of ABO and variations in hemoglobin content, enzymatic content of the red cell, white cell shapes, serum proteins;
- (b) Factors on gamma globulin molecules; and
- (c) Factors on white blood cells (tissue antigens).

Handwriting Mensuration System.—The application of modern technology in order to permit a more detailed and objective examination of handwriting for such things as identity, and physiological and psychological pathogenesis of the writer can be undertaken immediately.

Ballpoint Ink Dating.—The dating of ballpen writing is important because of the high incidence of embezzlement, fraud, forgery, and other crimes involving writing. There are no means for dating ballpen writings. The G. U. Forensic Sciences Laboratory enjoys a leading position in this area as a consequence of its work in ink analysis by thin layer chromatography and spectrophotofluorometry. Dating studies would be a natural outgrowth of the previous work and can be undertaken immediately.

Monographs.—To provide means for the gathering, coordinating, and disseminating of information to promote a higher mean level of expertise among widely dispersed laboratories and experts by communicating advances, new methodologies and new and improved techniques and procedures, working handbooks will be prepared and disseminated in the following areas:

Compilation of drug levels in fatal and nonfatal poisonings (reported levels found by workers in the field);

Identification of Narcotics from Biological Specimens, such as: blood, urine and tissues (methodology);

Hair and fiber identification;

Analysis of dried bloodstains (best present procedures);

Current developments in Firearms Identification;

Microscopic Characteristics of commonly encountered minerals and other substances in incendiary cases, burglaries, etc.

Public Information and Education.—Except for the leading role of the FBI, local communities and the public at large do not have sophisticated appreciation of the vital needs of the crime laboratory in the administration of justice. The proposed center would serve as a focal point for news media, in the support of an informed public awareness of the crime laboratory.

The public concerned includes the general citizenry and special constituencies such as: judges, prosecution and defense attorneys, legislators, students, and others.

5. *Insurance companies support research and standard setting in an effort to lessen the losses due to fire. Why, in your opinion, hasn't this occurred in the crime field, either with support by insurance companies or industrial trade associations?*

5. The ravages of fire and disease have long been recognized as resulting from controllable conditions. Whereas, the ravages of crime have been largely hidden from view, with the result that it has only been in recent years that there has been any widespread public awareness that serious problems do exist in this field.

6. *In his testimony Dr. Blumstein stated:*

I think the equipment needed in operating police departments is almost all on the shelf somewhere. It is a matter of choosing from what is available and tying it together in the right way. Although there are some exceptions to that, basically the equipment can be made available. . . . The research that is needed is research into the operations of this system, into social causes of crime, into the impact on crime of the various things done in the name of controlling it. . . . We know how to make the radios. It is a matter of coagulating the market, organizing the demand, and providing the wherewithal to get the radios introduced.

(a) *Would you agree with that statement? If not, what do you see as the basic needs?*

(b) *If you do not agree, why, in your opinion, are law enforcement agencies not using the available technology?*

(c) *What can be done about it?*

(d) *Why, in your opinion, hasn't industry filled the void as it would with normal consumer demands?*

6. (a) Concerning Dr. Blumstein's comments, it seems to me that he is talking about police enforcement equipment, such as, radios. Moreover, his observations concerning research seem to be directed solely toward research into police operations and conditions conducive to crime.