brings you a great new formula for general-purpose centrifuging:

**CS = CM + SB**

*CS = International's all-new cabinetized centrifuge — a combination of CM economy plus SB speed and versatility*

INTERNATIONAL MODEL CS GENERAL-PURPOSE CENTRIFUGE

for popular-priced versatility

ADVANCED IN DESIGN!

Only the new International Model CS Centrifuge combines all these features at such a popular price:

* New motor delivers higher speeds and forces: up to 5,500 rpm and 4,730 x G for routine centrifuging; up to 23,400 rpm and 37,950 x G with multi-speed attachment.
* Wide-range versatility: capable of swinging all CM and most SB head and accessory combinations... horizontal, angle and basket.
* Modern cabinetized construction with ample storage space for heads and accessories.

* Stainless steel guard bowl for maximum safety, long life and easy cleaning.
* Unitized control panel with speed controller, tachometer, electric brake, automatic timer and pilot light... all conveniently located.

NO ADVANCE IN PRICE!

Because of the productive skills and experience of the world's largest manufacturer of laboratory centrifuges, you pay no more for this advanced design than you would for a time-tested Model CM with its separate cabinet stand. Get all the facts about the great new Model CS from your nearby authorized International Dealer or write:

INTERNATIONAL EQUIPMENT CO.

BUILDING NO. 36, 1284 SOLDIERS FIELD ROAD, BOSTON 35, MASS.
Since its introduction six years ago, the Tri-Carb® Liquid Scintillation Counting Method has become the leading method for the radioassay of samples containing Tritium, Carbon-14, Sulfur-35 and other alpha- and beta-emitters. More samples of Tritium and Carbon-14 are now being counted in the Tri-Carb Spectrometer than in any other instrument. Look around—with hundreds of installations throughout the world, there is a Tri-Carb Spectrometer near you.

The Tri-Carb Method has been developing continually—both by new sample preparation techniques and by improvements in instrumentation. And now the latest advance is transistorization.

Greater reliability is one of the principal advantages gained by transistorizing the Tri-Carb Spectrometer. Both size and weight of the electronics have been reduced. Power consumption is appreciably lower and much cooler operation is achieved. Line voltage regulation and over-all stability have been improved significantly by the transition to solid state electronics.

In gaining these advantages no compromise has been made in operating performance. Specific figures showing the excellent counting efficiencies with low backgrounds that are obtainable under various conditions and with many types of samples are reported in the literature by numerous Tri-Carb users. Similar performance is routinely achieved with the new transistorized design.

Other new developments are broadening the scope of liquid scintillation counting. Improved sample preparation techniques now make this the method of choice for assaying almost every type of sample material—proteins, carbon dioxide, tissue, lipids, tritiated water, completely insoluble materials, etc. Special accessory devices have been designed to adapt all Tri-Carb Spectrometers, old and new, to continuous liquid flow monitoring in applications such as column chromatography, amino acid analysis, and tracer or safety studies in plant or field streams. Other new Packard accessory instruments are also available for adapting all Tri-Carb Spectrometers for radioassay of the effluent from gas chromatographs by both continuous flow and fraction collection methods.

Transistorized Tri-Carb Spectrometers are available now—and at no increase in price over the older models. They are in production and we can make prompt delivery. To receive complete information on new transistorized Tri-Carb Spectrometers and new accessory equipment as well as general information on current sample preparation techniques, write or telephone.
HARSHAW MANUFACTURES A COMPLETE LINE OF SCINTILLATION AND OPTICAL CRYSTALS

SCINTILLATION Mounted NaI(Tl) Crystals

Crystal detectors designed for the most sophisticated counting problems. Our physics and engineering group are available to assist you in your special detector problems.

STANDARD LINE (Hermetically Sealed Crystal Assemblies)
- The accepted standard of the industry
- Proven through years of service in research, medical and industrial applications
- Unparalleled performance, dependability, consistency and quality

INTEGRAL LINE (Crystal photo multiplier tube combination assembly)
- Improved resolution
- Ready to use plug-in unit
- Permanently light sealed
- Capsule design facilitates decontamination
- Close dimensional tolerances
- Harshaw guaranteed

Large Crystal MATCHED WINDOW LINE (Designed primarily for crystals 4" dia. and larger)
- "Small crystal" performance achieved through improved optical design
- Low mass containers
- Available in standard aluminum or complete low background assemblies
- Convenient mounting range
- Ready to use

Every Harshaw crystal is a product of our experience in crystal growing technology since 1936

OPTICAL Crystals

For Infrared and Ultra Violet Transmitting Optics

"HARSHAW QUALITY" INHERENT IN EACH HARSHAW-GROWN CRYSTAL GUARANTEES THE MOST EFFICIENT OPTICAL TRANSMISSION POSSIBLE THROUGH:

1) Negligible light scattering in crystals, permitting higher sensitivity and improved resolution
2) Freedom from absorptions caused by trace impurities in crystal optics
3) Minimum strain

"HARSHAW QUALITY" meets the demand for uniformity of optical properties such as dispersion and refractive index. Prices, specifications, or other information will be sent in answer to your inquiry.

The following infrared and ultraviolet transmitting crystals are available; others are in the process of development:

SODIUM CHLORIDE * SODIUM CHLORIDE MONOCRystal PLATE POTASSIUM BROMIDE * POTASSIUM BROMIDE PELLET POWDER * (through 200 on 325 mesh) POTASSIUM CHLORIDE * OPTICAL SILVER CRYSTAL THALLIUM BROMIDE IODIDE * LITHIUM FLUORIDE * LITHIUM FLUORIDE MONOCRystal PLATES * CALCIUM FLUORIDE * BARIUM FLUORIDE * CESIUM BROMIDE * CESIUM IODIDE

Additional information on the physical and optical properties of the above crystals is available in our 36-page booklet "Synthetic Optical Crystals". Send your inquiry to:

THE HARSHAW CHEMICAL CO.
Crystal Division Cleveland 6, Ohio

19 AUGUST 1960