

Consulting

Frequently, M μ Shield is called to a customer site to solve an electromagnetic interference (EMI) problem. Typically the customer knows the source of his problem, but does not have the expertise necessary to carry out a plan to eliminate the interference. Each consulting job is unique. M μ Shield is prepared to work in partnership with the client to provide a feasible, efficient, and cost effective solution. As part of M μ Shield's plan to provide appropriate magnetic shielding, our Engineers are trained to consult regarding the design and manufacturability of magnetic shields. Some of this can be accomplished over the telephone. When an Engineer is called on-site, or if the design services are extensive, our formal consulting services come into play.

In Part, The M μ Shield Contract for Services Reads:

"The M μ Shield Co. agrees to provide the client with advice, expertise, and guidance towards solving their magnetic interference problem. This can include a site survey, magnetic field measurements, material specifications, and shield construction techniques. M μ Shield will prepare a written report recommending remedial actions and provide a quotation where applicable."

Some examples of recent shield consultation jobs include:

A RECORDING STUDIO

Today's recording studios are jam-packed with highly sensitive electronic equipment designed

to recreate the big sound of live music on compact disc or magnetic tape. M μ Shield has worked with several studios with a variety of EMI related problems. One source of EMI is the recording equipment itself. When an electric guitar is close to the equipment, it will often pick up EMI "noise" from the wiring.

M μ Shield was asked to interpret the problem, and to shield the source of interference.



A UNIVERSITY COMPUTER LAB

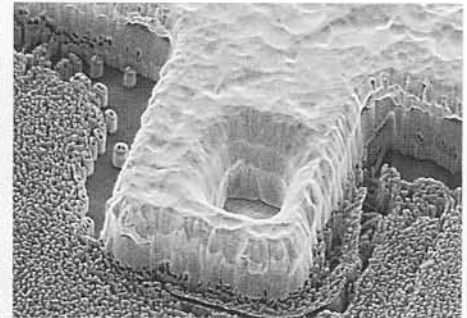
A common source of interference from EMI is power supplies and/or conditioners. When many computers are packed into a small space near a power related product, the computer monitors can be adversely affected by radiated EMI from the power unit. While one solution may be to shield each computer, it is often cheaper and easier to shield the source of the interference, in this case the power conditioner.



AN ELECTRON MICROSCOPE MANUFACTURER

In an electron microscope, an electron beam is used to scan a specimen to create an image up to 15,000

times its actual size. (The image at right is that of a reactive ion etched integrated circuit magnified 12,000 times.) Ambient EMI can render the image useless



unless there is adequate shielding. For many years, M μ Shield has provided magnetic shielding consultation and design services to this highly competitive industry. Major advances in this industry are made on a consistent basis, therefore getting new products to market means rapid response and expertise.