

In the wind . . .

by John Bishop

How is it made?

We're driving on a highway and a flatbed truck with WIDE LOAD banners whips by in the other direction. The trailer is carrying a machine, big as a house and covered with a tarp that taunts as its corners flap in the wind. Aloud, I wonder what it's for, and my wife smiles—or is it smirks? There's a gap in the fence around a city construction site, and I stop to peer through to see what's going on. Or I'm waiting in an airport (that's what airports are for—I think they should call them *waitports*) amid hundreds of fellow waiters deep in laptop DVDs and MP3s. Important businessmen are having loud imaginary conversations on their iPhones, but I'm captivated by the panorama of activity outside. Each airplane is surrounded by a fleet of odd-looking trucks. By now, I think I know what each



John Bishop

one is for, only because I've spent so much time watching them.

I'm fascinated by factories. I've seen steel, beer, automobiles, railroad cars, earth movers, and cigarettes being made. I've seen dollar bills, postage stamps, and

newspapers fly through enormous printing presses at incomprehensible speeds. In the seventies, I rented a house from a guy who was a tool maker in an auto assembly plant. One December day, he invited me to a company Christmas party. We walked in to the din of the assembly line, and I quickly realized that the party was unofficial. Cars were being made by workers who were more focused on holiday cheer than the task at hand. I was secretly glad I was not planning to order a car that week.

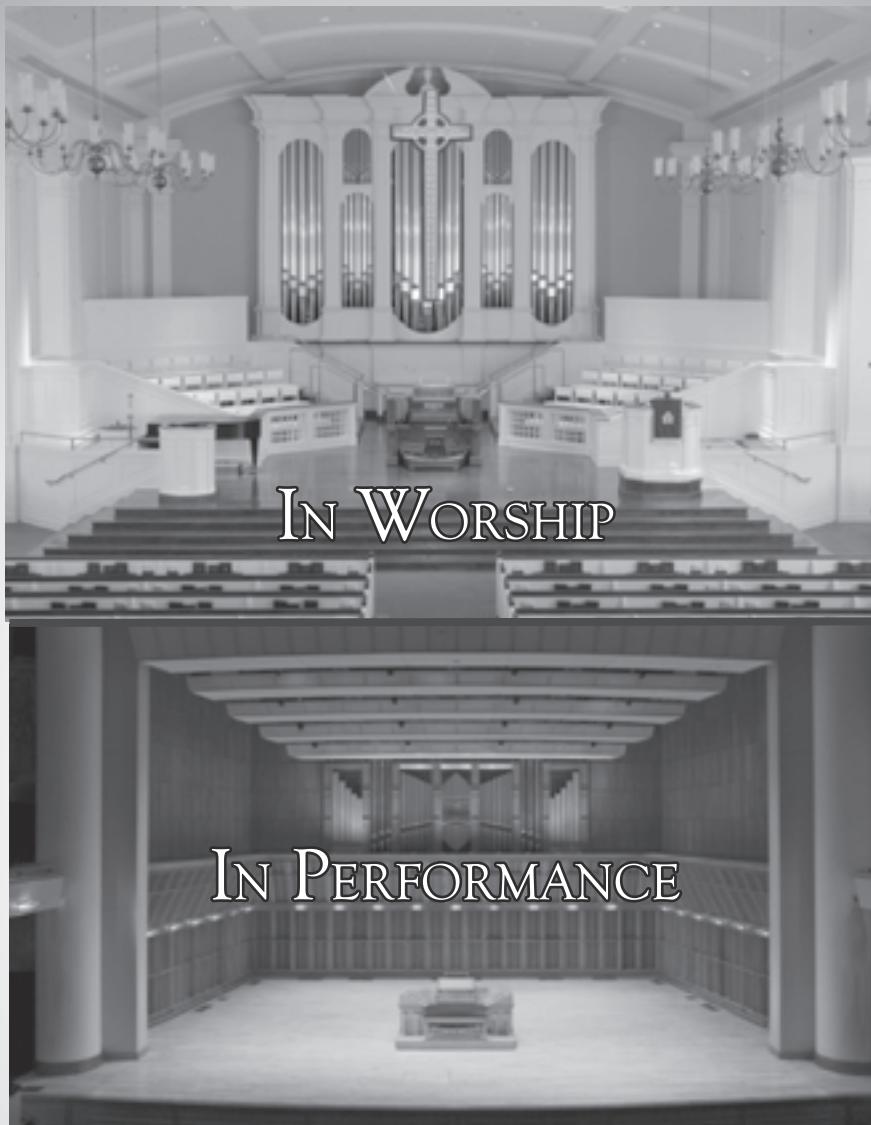
Sesame Street was a staple in our house when our kids were young, and I loved the many segments of the show taking viewers on factory tours. Joe Raposo (brilliant composer of the show's theme song, along with such classics as *It's not easy being green*) wrote *It takes a lot of little nuts to make a jar of peanut butter*, a catchy tune that accompanied video shots of peanuts cascading down chutes into massive grinders and gooey paste blurping into jars as they shot along conveyor lines. Watching soda pop going into bottles at two or three a second,

you might expect to hear the clanking of glass, but they shoot along obediently with only the whirr of the machines.

Organ builders spend much of their careers learning how to make little widgets one at a time, and figuring out how to make them better and more economically. I don't say cheaper, because it's a rare organbuilder who looks for cheap. Making a pipe organ part economically implies some kind of continuum that includes cost of material, time for manufacture, and artistic content. Just because you built a tremolo for less money doesn't mean it's going to "trem" musically. If you've developed a part that you know you'll need by the thousand, you develop the ability for mass production. A tracker organ might need two or three hundred squares—if you've got a good design, why not spend a week making enough for the next ten organs? Or if someone else makes them in greater numbers for less money per piece, why not buy them and use them in your organs?

Another case in point is the huge parts that comprise a large organ. Building just

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32' Open Wood pipes, Organ Supply Industries (photo John Bishop)



Pipe metal, A. R. Schopp's Sons (photo John Bishop)



Reservoirs, A. R. Schopp's Sons (photo John Bishop)



32' Bombarde, A. R. Schopp's Sons (photo John Bishop)



Coil cores for electric chest magnets, Organ Supply Industries (photo John Bishop)



Armatures for electric chest magnets, Organ Supply Industries (photo John Bishop)



Housings for electric chest magnets, Organ Supply Industries (photo John Bishop)

combined, until today, most new electro-pneumatic organs incorporate chest magnets from one source.

The modern small organbuilding shop is challenged by the struggle between artistic content and commercial reality. No client purchasing an organ will agree to a price "to be determined." Any organbuilder is expected to state a price be-

fore work starts. It makes no sense for a small shop to mess around developing the ideal chest magnet to complement their artistic philosophy when a century of research and development provides a universal model with space-age specifications at mass-market prices with the help of FedEx.

But there is another side to this issue. You can go into a Crate & Barrel store in Texas and buy a half-dozen beautiful wine glasses, take them home and enjoy them as part of your home, and then with a pang of disappointment see the same glasses on the table of a friend in Seattle. Or notice that the books featured on the front table at Barnes & Noble on Union Square in New York are identical to those in a shopping mall in suburban Phoenix—as if tastes in reading would be the same in any two places. It's a natural impulse for an organbuilder to make his products unique—you feel a little pang when you see the same stuff you use in an organ built by another firm.

Is the magnet the artistic core of the organ? How many other little parts could be uniform through a variety of organ companies before the instruments all blended into one? How do we define the parameters for performance of the parts in an organ? One way to judge the performance of an electric or pneumatic organ action is the repetition rate—how fast can the note repeat? (The real key to fast repetition is quick release, not fast attack.) A standard answer is sixty repetitions per second, a speed faster than an organist can go, faster than a pipe can speak—in short, fast enough so the magnet would never be the weak link. Would it be worth the time and expense to spend a couple months developing a new magnet that could do sixty-five? Would the player be able to tell?



Router (photo John Bishop)

While the two companies I visited last week have different priorities and personalities, in my judgment they share a common philosophy. Because they work in large volume, they can afford sophisticated modern automated equipment that is beyond the reach of a small shop. But what they really offer is service. An organbuilder can choose to purchase a mass-produced reservoir from a list of sizes in the catalogue, or order one that's custom built to specifications for a particular organ. And a small organ shop can view a supplier as an annex capable of providing anything from a box of screws to a complete organ.

These venerable companies employ engineers who advise their customers about the use of their products. They can help with the design of custom parts and components. And they work very hard to be sure that the quality of their products is high enough to complement the quality of the work of their customers, the American organbuilders.

Last year the Organ Clearing House completed the renovation of a three-manual Casavant organ. Because the organ was being moved to a totally different architectural environment, we provided a new case with new façade pipes. The case was built by another supply company, QLF Pipe Organ Components of Rocky Mount, Virginia. OSI supplied the polished pipes. Before and after photos show what "supply house" really means. (See "Here & There," THE DIAPASON, April 2008, p. 10.) It's the next best thing to running a company with a hundred cars in the parking lot and a roster of specialty departments. ■

On Teaching by Gavin Black



Registration and teaching—Part III

To all this was added the peculiar manner in which he combined the different stops of the organ with each other, or his mode of registration. It was so uncommon that many organ builders and organists were frightened when they saw him draw the stops. They believed that such a combination of stops could never sound well, but

were much surprised when they afterwards perceived that the organ sounded best just so, and had now something peculiar and uncommon, which could never be produced by their mode of registration. This peculiar manner of using the stops was a consequence of his minute knowledge of the construction of the organ and of all the single stops.¹

In the last two columns we have gone over, as carefully as possible, all of the aspects of the art of organ registration that are objective and systematic—that is, the meaning of the pitch designations given to stops, and the science of combining stops as it relates to the different pitch levels and to overtones. By devoting two whole columns to these matters and in the way I laid out all of their details, I have tried to make the case that students wanting to study registration should be encouraged to understand these things extraordinarily thoroughly at the very beginning of that study. This seems to me to be the necessary first step in achieving the "minute knowledge" attributed to Bach by Forkel (and his sources) in the famous account quoted above.

The next step in achieving the level of knowledge and understanding that permits freedom and confidence in registration—or, I should say, the next set of steps—involves beginning to explore the actual sounds of the stops: the thing that makes organ registration exciting and challenging, and that gives meaning and

variety to the essentially infinite number of different combinations of stops that a mid-sized or large organ possesses. Let us begin with a few principles. These partly reflect my practical experience—they seem to me to provide a good foundation for an approach that clearly and simply works to help students to feel comfortable with registration and to achieve results with which they are happy. Partly, however, they reflect my belief—which I admit probably rises to the level of an ideology—that every musician ought to think for himself and be willing or eager to achieve results that are different from anyone else's. These principles are as follows:

1) The art of registration is fundamentally the art of really listening to every sound that you hear—also really hearing every sound that you listen to—and noting carefully and honestly your reaction to it.

2) The ideal approach to choosing a sound for a given piece or passage is to try it out with every available sound. This is almost always actually impossible (see last month's column), but it is still an interesting and invigorating concept to keep in the back of one's mind.

3) The names of the stops are only a general guide to what they sound like or how they should be used. These names can be very helpful for targeting which stops or combinations to try, given that it is impossible to try everything. How-

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