areas were rebuilt. Cultural practices such as aeration, slit seeding, fertilization, divot repair were part of the program introduced to maintaining the field as well as frequent mowing, edging and infield care. In the summer of 2007, Bergenfield was the host site for the District 4 and Sectional championships.

The warning track was extended to include foul areas in the winter of 2008. New infield clay was added as well. Last year Hickey Field again hosted the NJ State Little League Tournament. Special projects that were completed in the past 2 years include:

• 2007—newly sodded infield (Tuckahoe Sod Farm) and outfield warning track (George M. Schoefield)
• 2008—Completion of warning track around the entire field, new infield clay, rebuilt mound and home plate area (Partac Peat/Beam Clay), and rebuilt bullpens.

Pioneer Athletics’ rep Steve Every donated paint for field lining and logo painting and Wilfred MacDonald, a Jacobson distributor, supplied equipment for renovation work, field grooming and mowing.

The field is maintained by volunteers who I have had the privilege to train, including my 14-year old son, Kyle. The volunteers spend countless hours to make sure that not only is the field looking at its best but also safe and playable. The field is maintained daily for more than 300 games as well as practices that begin in early March and end in late November. This is no easy task. Visitors and visiting teams are always impressed with how well the field is maintained.—George Van Haasteren, CGM

KAFMO at Little League

Soon after the Keystone Athletic Field Managers Organization (KAFMO) was formed in 1994 Little League approached us asking if we could help renovate Howard J. Lamade Stadium so they would have the best Little League field in the world for their 50th anniversary in 1996. After a meeting with LL officials we decided that we could help and began to organize the resources needed.

We selected Alpine Services to do the grading and Sporting Valley Turf to lay the sod, I was asked to represent KAFMO as clerk of the works and the go-between for contractors and Little League. Alpine Services finished grading the field in late October following many weather delays and group of KAFMO volunteers along with the Sporting Valley Turf crew finished laying the sod on November 9, 2005. On November 11 Williamsport got 11 inches of snow and we did not see the sod until spring.

In the spring of 1996 they asked me if we could get some KAFMO volunteers to serve as grounds crew for the 50th anniversary event. Over the past 13 years, our grounds crew has grown from that first year when 6 volunteers served as the crew on one stadium field, to a 30-person crew who shuffle in and out during the series to assist with games on two stadium fields.

Since the addition of Volunteer Stadium in 2001, when volunteers stayed in the player dorms, we are now provided housing at other locations on campus. Initially we ate in the dorms, then we ate refreshment stand food and now KAFMO solicits sponsors to donate funds for the

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Coaches and players love the way it looks and plays and you and your crew will appreciate how easy it is to manage. TifSport can only be sold as certified sod or sprigs and only by licensed members of the TifSport Growers Association. For more information visit us at www.tifsport.com, or call 706 542-5640.
crew to hire their own cooks and set up food preparation and eating area where three meals a day are provided.

In the beginning the crew was made mostly of local volunteers but now we have volunteers coming from California, Texas, Wisconsin, Ohio, Virginia, West Virginia and Pennsylvania. Crew members have experience at all levels of our profession, ranging from professional stadiums, to college and universities, to local community parks and Little Leagues.— Don Fowler, retired Penn State extension agent.

NESTM A’s Extreme Field Makeover program

The New England STMA Chapter has run its Extreme Field Makeover since 2006. The project was an idea to promote professionalism, increase our exposure and help give back to communities in need. The project is completed annually in the fall where a field in need of renovation is given a complete makeover in 1 week’s time. The entire project is completed using donations of materials, supplies, equipment, and labor. Since 2006 we have completed three projects including a lacrosse field in 2006, softball field in 2007, and a Little League baseball field last year.

Communities fill out an application telling our committee why they deserve the project on their field. Each application is reviewed, and the finalists are given a site visit and the committee awards the winner based on certain criteria that fits our vendors and members. We have had between 25 and 45 different vendors and members participating in the projects. We rely greatly on our vendors that are able to donate their expertise, time and products for the projects. Our vendors include sports turf construction companies, irrigation suppliers/ installers, material suppliers, and sod farms.

Our members come from municipalities, professional sports teams, college/universities, and private schools.

We recruit our vendors and members a few ways. We have an email system that sends out mass emails to our 300+ members. We promote the project in our newsletters. We encourage participation by talking to our vendors face to face and over the phone. And we talk about the project and what the projects needs are at other NESTMA events throughout the year.

A typical project consists of field layout, rough and fine grading, soil testing and modification, irrigation and then finally, sod. All projects were valued between $75,000 and $125,000 each. Thanks to every vendor and member that has participated the past 3 years, the projects would not have been successful without your continued support.— Ben Polimer, Longwood Cricket Club

Safety concerns lead to renovation

As a member of STMA for many years, the first six of which I was one of the only STMA members in the Upstate New York region, I have tried to do at least two volunteer projects per year. One of these projects was initiated last September when I was contacted by Robert Nadler, president of the Mechanicville—Stillwater Little League, which has 300 players and three fields.

The area has an historical significance in being located just south of the Saratoga Battlefield, widely cited as the turning point of the American Revolutionary War. Additionally, Mechanicville was a hub of industrial activity, hence its name, up until the 1960’s. The three youth fields neighbor a nearly abandoned railway yard and train repair center located in the center of Mechanicville. Bob Nadler and I surveyed the fields for safety concerns, as well as field layouts, and found problems on all three fields that needed to be addressed.

In the past I have always tried to get youth leagues to try to tackle as many issues as possible in the fall of the year. Here in Upstate New York, the real upstate, above Westchester, we have the 4th of July proceeded and followed by winter. All baseball fields in the region are under intense pressure for practice and play as soon as the frost comes out of the ground, so anything accomplished with regards to maintenance or construction in the fall is a huge help.

On the primary field we built and added clay to the pitcher’s mound and home plate area. We also reset all of the bases and relocated some irrigation heads from the skinned area to a location in the turf. We edged the entire skinned area with a sod cutter borrowed from a local golf course. We improved the infield soil profile for drainage and playability. The whole skinned area was groomed and graded (with a Toro Infield Pro, the use of which was donated by my employer).

Our efforts on the pony field (8-10 year olds) and tee ball field (5-7 year olds) were remarkably similar. However, during reconstruction of the pony league field while trying to layout bases, we encountered a small problem. Both foul poles were off 4-5 feet. Once we located the proper position for each foul pole and re-figured the infield it all came together nicely. The last thing that we accomplished was a total aerification of all three fields with a tractor mounted aerator, again supplied by the local golf course,
and applied seed at the rate of 2 lbs. per 1,000 square feet and an application of slow release nitrogen. The grass seed was applied just at the end of our growing season and germinated quite nicely.

All three of these fields were in tip-top shape for opening day 2009. All supplies needed were purchased through the generosity of league sponsors (local businesses) and some field tools were donated by Par Aide Products.—John Halloran, Grassland Equipment and Irrigation

STMA National gets in the act

Following STMA’s Annual Conference, association members give back to the host community through the Annual MLB Groundkeepers Conference, held this year in San Jose. Corporate sponsors and approximately 45 Major League Baseball (MLB) groundskeepers donated time, money and resources to transform the Sequoia High School baseball field into a first class field.

“We received an e-mail from Larry DiVito, head groundskeeper for the Washington Nationals, that we were selected for the field rebuild,” said Tink Reynoso, Sequoia High School baseball coach. “In addition to the MLB groundskeepers, about 100 people from the community came out to help, including our alumni association. The improvements to our baseball field are unbelievable. We now have a baseball field above the level of most colleges. It’s a dream come true.”

Commercial member sponsors of the renovation included PRO-FILE Products, Toro, Covermaster, West Coast Turf, Colony Landscaping and Barkshire Laser Leveling. The Baseball Tomorrow Fund, a joint initiative between Major League Baseball and the Major League Baseball Players Association, gave a $40,000 grant to support the project.

A dedication ceremony took place at the school January 19. DiVito, an alumnus of Sequoia, threw out the ceremonial first pitch followed by a one-inning exhibition by the varsity team.

Reynoso mentioned that DiVito presented information to his entire baseball team on how to maintain the field. Representatives from the Seattle Mariners also held on-field classes on how to take care of the pitcher’s mound. Luke Yoder, the San Diego Padres’ head groundskeeper, spearheaded the entire endeavor that began back in August of 2008.

“This has become somewhat of a tradition at the MLB Groundkeepers Conference,” explained Joe Betulius, vice president of sales for Profile Products. “We had an incredible amount of support this year from groundskeepers, corporate sponsors and a large financial contribution from the Baseball Tomorrow Fund. Without a doubt, the Major League groundskeepers are remarkable in their skills and they left an enduring legacy for the San Jose community and Sequoia High School baseball.”

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New field layout tool works for 1-man crew

“LAYING OUT A FIELD is often times one of our biggest challenges, not only to make it right, but also to have all of them marked in the same day,” says Peter Thibeault, CSFM, turf manager for the Noble & Greenough School, Dedham, MA. “In New England, like colder areas, one of our challenges is getting all the fields marked the moment the snow melts. I use a method of having permanent markers in the corners of the fields, which can sometimes take a little while to find and usually requires a metal detector. After finding them, we then have to check to make sure frost and aeration hasn’t moved them around. This process alone can take a day or two.

“Last year Norm Paquette e-mailed me his software and method for layout that simplified the process completely; not only does it help with regulation size field layout but it also allows for you to scale dimensions down to make mini fields for camps and practice spaces,” says Thibeault.

“From season to season I will generally move my playing surfaces around from side to side or end to end. Norm’s method of layout allows you to spin the field so that your new center of traffic runs diagonal to traditional layout. This has saved me lots of time in laying out fields; I have managed to get my layout time for girls’ lacrosse down to less than 2 hours, completely painted.

“The tool gives step-by-step instructions on where to walk next. We all know to layout on 8 1/2 x 11 paper no problem but to walk it out on 2 acres can be tiresome, especially if you’re making lots of extra steps,” says Thibeault. “The software is simple to use and can do conversions from feet to meter and vice versa. You can print the diagram and use it to follow along; I feel as though this software can help anyone no matter what their background to layout the perfect field.”

“Ultimate Field Layouts (www.ultimaterfieldlayouts.com) was conceived to provide professional turf managers, sports camp counselors, municipal grounds crews or first time field maintenance volunteers the tools necessary to layout athletic fields that will have perfect 90-degree corners, meet very specific requirements for each sport, and do it all on their very first attempt,” says Paquette, inventor of the method.

“You begin with an Excel spreadsheet that is specifically designed for each sport. For example, for soccer you would place dimensions in a table that would define the overall width and length of the field, the size of the penalty and goal boxes, the center circle, corner radii, etc. Once you have defined your field size, all the diagonal distances and specific points are calculated for you,” says Paquette.

“Now that you have the calculations, you are ready to stake the field using the suggested sequence instructions included. A stringing sequence is also included to help establish the process for the inexperienced.

“This process has been defined assuming that just one person will be laying out the field. If a second person is available, the process flexibility allows for a
second person to concurrently stake the other half of the field. This would save half the time needed during that operation. Additional layout efficiency includes the ability of a second person to follow right behind the person stringing the field and stripping the line concurrently, thereby saving additional time as well. Having assistants dramatically reduces the time required to layout a field using this process,” says Paquette.

“In addition to a more streamlined approach to field layouts, the software will calculate paint requirements based on industry standards (300 ft/spray can, 400 ft per diluted gallon of paint) and upon the size of your field. You can choose to input meters, yards or feet and have the option to read the dimensions in meters or feet-inches with the click of a button. Links are provided to the ruling organizations for each sport. Where appropriate, links to international ruling bodies are supplied, as well as their subtle field differences, all with the click of a button,” he says.

Sample field sizes are offered based on recommendations from ruling organizations such as soccer (U12, U10, U8, & U6), women’s lacrosse (Level “A”, “B” & “C”). On these sample fields, all the appropriate input boxes are automatically filled in for you, but the program allows you the ability to change any or all of the input dimensions so that you can customize your field based on your organizations requirements and or real estate constraints.

Thibeault thinks one of the best features is the paint use. “We are all on tighter budgets than ever, this will help to figure paint use based on type and size of field. With that being said this software will also help you better use the not enough space you have to manage by being able to scale things more consistently,” he says. “We all know our athletes need consistency and if we could all be more consistent on how we scale things for the younger groups the better off they would be.”

“Norm’s method of layout allows you to spin the field so that your new center of traffic runs diagonal to traditional layout.”
Facility & Operations

STMA Conference attendance
1,375% return on investment (ROI):
a case study

INTUITIVELY, we understand that continuing education and training provides benefits to employees and to employers. Rarely is it quantified to show the financial return and its impact to facilities’ bottom lines.

In today’s economy, education and training dollars are disappearing, and employers are challenged to make certain that they are receiving premium value from the dollars invested in continuing education.

To help an employer assess the financial benefits that their facility will receive by sending their sports turf manager to the STMA Annual Conference and Exhibition, a case study of a typical attendee’s consumption of education during the 2009 Conference is provided. The case study includes quantifying the achieved benefits to determine the return on investment (ROI) of attending the STMA conference.

The 2010 STMA Conference and Exhibition will have equal or greater educational opportunities, and the 2009 conference is a good forecast for the ROI that will be achieved by attending the 2010 conference.

ROI analysis allows decision makers to determine the financial return from training by comparing net program benefits—benefits minus costs—to costs. ROI is calculated by taking the net benefits of training, dividing by training/education costs, and then multiplying the result by 100. ROI is always expressed as a percentage.

Net Program Benefits - Costs x 100 = ROI
Program Costs

For any ROI calculations, the higher the percentage, the more desirable the program. For example, if the ROI percentage is 25, then for every $1 in cost there will be a return of $1 to cover the costs and an additional 25 cents over and above the costs of the program. This is said to have a 25 percent Return on Investment.

Case study

Note: This model assumes that the sports turf manager has purchased a full-conference registration. The sessions noted below were randomly selected; attendees have up to eight concurrent sessions from which to choose during each time period. The information presented should be used as a guide and should not replace professional advice or consultation.

These scenarios assume an average salary for the Sports Turf Manager of $55,000 = $26.44 per hour, unless otherwise indicated.

Wednesday, January 14.
Pre-conference education session: Practical Recordkeeping for the Sports Turf Manager

Time & Resource Savings
1. Better time management due to complete, accessible and accurate recordkeeping (2 hrs. per month @ $26.44 = Estimated Savings $63.56)
2. Better planning and budgeting for equipment replacement by scheduling out for 10 yrs. and corresponding rolling stock equipment list costs (2 hrs. per year @ $26.44 = Estimated Savings $52.88)
3. Improved inventory control (1 hr. per month @ $26.44 = Estimated Savings $31.72)

Increased Productivity
1. Savings by having an accurate historical calendar of inputs, management practices, and exact product quantities (Save on average one bag of fertilizer @ $20 (bulk), one bag of perennial ryegrass seed @ $75 (bulk), one gallon of field paint. Bulk Price 5 gal. paint = $44; 1 gal. @ $8.80; one bag lime $8; and one bag gypsum @ $12 = Estimated Savings $123.80)

Parks & Rec Networking Session. Two money and resource savings ideas were presented in San José:

Time & Resource Savings
1. The importance of conducting an irrigation audit, preventive maintenance scheduling and ‘just-in-time’ water management strategies. (Savings 20% of water budget annually; assume average water budget of $10,000 = Estimated Savings $2000)
2. Borrow/share less-frequently-used equipment, such as aerators and dump trucks, among peers, i.e., local parks districts, municipalities, schools, etc. (Estimated Savings: $5,000 for used walk-behind aerator)

Thursday, January 15.
Weather 101. By understanding weather patterns and forecasts, sports turf managers will save money on labor and inputs.

Time & Resource Savings
1. Labor — limit downtime associated with early morning dew, air temperatures, and frost delays (Seasonal Worker Wage: $10 / hour; March-April and September-November = Hours saved per season: 4 hours per week for 12 weeks = Savings Estimate $480 / person x 3 people = $1440)
2. Better timing and more efficient applications due to understanding rain patterns for Broadleaf and Grassy Weed Control: 10 acres @ 1 gallon/acre of Momentum Q herbicide — limited to 2 applications per year @ $50 per gal. = Savings Estimate $500)
3. Reduced unnecessary repeat applications of post-emergence crabgrass
how to conduct a safety audit

Case study

Mike Trigg, CSFM, Superintendent/Parks, Waukegan Park District

How to Conduct a Safety Audit

1. Reducing mowing by 20% per field. Assume a budget of $8,000 annually on material costs; plus labor costs of 412 annual hours. Fuel is estimated at 20% of budget ($1600). Estimated fuel savings = $320. Mowing labor is estimated at 75% of budget (75% of 412 hours = 309 hrs. X average $10 per hour labor costs = $3090. Estimated mowing labor savings = $3090 X 20% = $618.

2. Buying paint in bulk quantities (42+ buckets per purchase @ $44 per bucket). $10 per bucket x 42 = Estimated Savings $420

3. Paint savings by mixing 1 part paint to 4 parts water versus 1 part paint to 3 parts water. If 42 buckets purchased each time @ $44 per bucket – Estimated savings $1848

4. Paint savings by mixing 1 part paint to 4 parts water versus 1 part paint to 3 parts water per football field – Estimated savings: $6000

5. Savings by using aerosols during inclement weather to prevent postpone-ment or cancellation of a high school football game – aerosol cost is $270 for 6 cases - $6 per person for a total of 1000 people plus $6 in concessions – Estimated savings: $11,730 (paint costs only)

6. Savings by not cancelling or postponing a division one college football game – (labor, utilities, paint, tickets, concessions, etc.) $3,260,000 (for information purposes only)

Environmentally Compatible Sports Turf Management

Time & Resource Savings

1. Applying urea (46-0-0) correctly to prevent ammonia volatilization (35% loss) – applying 1 lb. N per 1000 sq ft costs $0.54 (based on $500 per ton) – application on a 1.3 acre football field = $10.00 per application x 5 applications per year. Estimated Savings: $50

Nitrogen Fertilizers in Sports Turf

Time & Resource Savings

1. Resource savings with the use of an airless paint machine. Cuts bulk paint cost by 50-70%. Based off of 3 professional football fields with no logos being painted 34 weeks a year. Estimated savings: $6000

2. Buying paint in bulk quantities (42+ buckets per purchase @ $44 per bucket). $10 per bucket x 42 = Estimated Savings $420

3. Paint savings by mixing 1 part paint to 4 parts water versus 1 part paint to 3 parts water. If 42 buckets purchased each time @ $44 per bucket – Estimated savings $1848

4. Paint savings by mixing 1 part paint to 4 parts water versus 1 part paint to 3 parts water per football game – Estimated savings: $6000

5. Savings by using aerosols during inclement weather to prevent postpone-ment or cancellation of a high school football game – aerosol cost is $270 for 6 cases - $6 per person for a total of 1000 people plus $6 in concessions – Estimated savings: $11,730 (paint costs only)

6. Savings by not cancelling or postponing a division one college football game – (labor, utilities, paint, tickets, concessions, etc.) $3,260,000 (for information purposes only)

Future Technology in Turfgrass Management

Irrigation systems that cut water usage 30% and provide “green” rebates back to the owner. Estimated Savings (based on $10,000 irrigation budget) $3000

Budgeting to do it right the first time

Time & Resource Savings

Per a Midwest field builder, poorly constructed fields are often due to low bid situations whereby the bid is not inclusive of all of the specifications, or the specifications simply are not followed. Repairs can be from $10,000 to $1+ million dollars depending upon the severity of the problems and can take weeks-to-months to repair. Estimated Savings: $50,000. (for informational purposes only)

Contributors:

Darian Daily, Head Groundskeeper, Paul Brown Stadium
Elizabeth Guerat, PhD, Auburn University
Brad Jakubowski, Instructor, Doane College
Dana Lonn, The Toro Company
Mike Munie, President, M J M Services Inc.
John Nerwal, CGCS, Director/Operations, North Scott Community Schools
Dave Pinsonneault, CSFM, C PPR, Public Grounds Superintendent, Town of Lexington
Frank Rossi, PhD, Cornell University
David Schlothauer, Athletic Field Manager, Brigham Young University
Mike Trigg, CSFM, Superintendent/Parks, Waukegan Park District
Readers respond: taking care of equipment maintenance

Editor’s note: We asked some readers from around the country three questions: Who does your equipment maintenance? How is that person trained? If you do your own maintenance, where do you get training? Here are selected responses:

We usually don’t have to do much on our equipment throughout the year, unless something major happens, at which point we send it out.

Derek Hurlburt, Pittsburgh Pirates

We have four mechanics that do most of our equipment maintenance work; they also work on buses and autos for the district. Our turf crew members perform jobs like blade changes, greasing, and regular daily routine work. Warranty work is performed by a local dealer. We send our reels out to a local guy to sharpen yearly, and periodically backlap in our shop.

Three of the four mechanics came to us from auto dealerships, where they received training; periodically they attend training seminars, when we can afford to send them. The fourth guy works on small engines, trimmers, etc., and his training is on the job.

Fred Heckle, Rock Hill (SC) School District

We do minor equipment maintenance ourselves, what I like to call “common sense” maintenance. For anything out of our league we send it to the distributor who sold us the piece.

Allan Johnson, Green Bay Packers

Since we are a municipality all of our capital equipment goes to our Fleet Maintenance Dept. for service, based on the unit’s hours. None of their employees have special training dealing with turf equipment. Our crew attempts to handle repairs ourselves but if a problem is too complex we turn it over to Fleet Maintenance.

Typically issues can be resolved between the two departments but if we can’t do that, we contact the vendor. I would like an in-house mechanic but that won’t happen. We are the largest of three sports complexes owned by the city and commonly share equipment if needed to get the job done; likewise with the city’s golf course. One big happy family!

Brad West, City of Broken Arrow, OK

We do our own maintenance on our John Deere equipment throughout the year, and then we usually send them out once a year in the winter to have them serviced by a John Deere Service Center. We usually don’t have to do much on our equipment throughout the year, unless something major happens, at which point we send it out.

Derek Hurlburt, Pittsburgh Pirates

We have four mechanics that do most of our equipment maintenance work; they also work on buses and autos for the district. Our turf crew members perform jobs like blade changes, greasing, and regular daily routine work. Warranty work is performed by a local dealer. We send our reels out to a local guy to sharpen yearly, and periodically backlap in our shop.

Three of the four mechanics came to us from auto dealerships, where they received training; periodically they attend training seminars, when we can afford to send them. The fourth guy works on small engines, trimmers, etc., and his training is on the job.

As far as training for our crew, we have occasional, informal sessions with our in-house mechanics, and we have brought in manufacturing reps to conduct classes. A lot of our training is simply word of mouth among us.

Fred Heckle, Rock Hill (SC) School District

All of our equipment maintenance is done by the field mechanic from Toro, our equipment provider. We pay a monthly fee to Toro to have them send their field mechanic out once a week for 4 hours. He does all the maintenance to the equipment: repairs, scheduled maintenance, warranty work, upkeep, etc. If it is broke he fixes it, if it needs to be taken into their shop he takes it there for repairs. He is one of their many trained mechanics. When he is not here, he is out making other field calls. This is much cheaper than hiring a full time mechanic.

Allen Reed, FC Dallas

I have an in-house, certified mechanic from the automotive industry on my staff. We have arranged specific training for turf equipment through local turf equipment dealers and update training when new products or services are adapted.

We also use a computerized maintenance management system to keep records on repair maintenance, usage, labor and parts costs i.e. filters, blades, belts, etc., depreciation, fuel consumption, preventative maintenance schedules and replacement costs.

Chris Lessig, Manheim Township (PA) Parks & Rec
Our major equipment maintenance is performed by a golf course mechanic. He is a baseball fan and we pay him for a portion of his services and trade tickets for the other part. He has a degree in mechanics and has updated his skills by attending classes and training seminars focused on turf equipment.

The training for the portion of maintenance that we perform on our own has been hands on experience from accomplishing the tasks. We get what we can from our owner’s manuals and then call on peers to answer questions when we are stumped. I learned my basic maintenance skills from working on the family farm as I grew up.

Jarad Alley, Albuquerque Isotopes

Our equipment maintenance is done in house and our mechanic was trained at the Utah Valley University small engine program.

I do the day to day maintenance such as change out tires and that sort of thing; the repairs and major adjustments to our equipment is done by our in-shop mechanic.

David Schlotthauer, Brigham Young University

Other than lubing all grease fittings and keeping all mowers clean, I’ll solicit the service of our facilities mechanic/technician for service such as oil changes and other light maintenance. We also have a former golf equipment mechanic on staff with Facilities that lends good advice on back-lapping, etc. For reel grinding services and other specialized repair and maintenance, I’ll contract with an identified golf course mechanic close by.

I would assume that the three individuals mentioned above were possibly certified to some degree, but relied on on the job training for the most part.

Any training I have is from being mentored by golf course equipment technicians in past work experiences in Florida and other states.

Brian Cool, Pacific University

Until a year ago we had three methods for doing equipment maintenance. We did minor repairs, preventative maintenance and scheduled services in-house with our own full-time supervisory staff. Major repairs were farmed out to the town’s Public Works Department mechanics or to local private sector mechanics.

Luckily, a little over a year ago we were fortunate enough to be able to add a full-time mechanic to our parks division staff. He has a formal mechanic’s education, a mechanic’s certification and a lifetime of experience working on all kinds of equipment and vehicles. His only limitation is that our maintenance shop does not have all the equipment that a mechanic needs or all the tools, for that matter. When a situation arises where he’s faced with these limitations he either takes the equipment to the PW shop or borrows the tools. Although he brought many of his own tools with him when he started work we are slowly building an inventory of tools for him as our budget allows.

Although our budget is tight right now, as is everyone’s, we encourage our full-time employees to seek out training opportunities that are applicable to their job and will be of value to the department. For instance, we are hoping to send our mechanic to a training session this fall to familiarize him with the specialty mechanics of working on our Piston Bulley snow groomer that we use to groom Nordic ski trails in the winter.

It has been great having a full-time mechanic. We have noticed less down-time for our equipment which has meant greater productivity in the field in areas such as mowing, trimming and infield preparation. He is responsible for keeping the shop organized and clean which was quite a chore before, as you can imagine, with 10 or 15 young seasonal employees coming and going all day. He has relieved our field supervisors of having to come out of the field to fix equipment so that they now can more closely oversee field operations, which has improved accountability and quality of work amongst our seasonal staff. He is keeping accurate service records which enables him to do timely servicing and preventative maintenance which in turn prevents equipment breakdowns and adds longevity to our equipment thus reducing the stress on our capital equipment replacement budget.

Al Zuckerman, Teton County (WY) Parks & Rec

We perform our own equipment maintenance. We have two in-house mechanics that work on the University vehicles as well as our turf maintenance equipment. The two mechanics came into the positions with experience from the automotive industry.

We currently rely on our equipment vendors for any additional training that we would need to keep up to date on new technical information. I believe that preventative maintenance is the key to a successful turf equipment program.

Matt Clement, Roger Williams University

We do 95% of the maintenance on our fleet using our in-house grounds staff. We service and repair 235 pieces of equipment from our Grounds Shop. These pieces include everything from aerial lifts to z-mowers.

All 6 of our groundskeepers assist with equipment maintenance in one way or another. I am primarily responsible for coordinating maintenance on the fleet. Two of our other younger groundskeepers have been developing into and working to take over most of that role over the last year.

We have tended to hire people who have a natural mechanical aptitude to begin with and also a desire to learn and grow. It’s really a learn-as-you-go environment for us. Mentorship is a key aspect to our program.

We attend workshops and dealer training as those opportunities are available. We use internet resources extensively in addition to the local library, television programs and networking connections to others in the industry that can mentor us to learn and expand our knowledge. We purchase full service manuals for all of our equipment to reference and learn from.

Here are additional thoughts on the guidelines of our program and what makes it effective:

• Preventative Maintenance (PM)—equipment is serviced according to factory service schedules or better. All equipment is assessed and service at least 1x/yr. Our goal is to have no comeback.

• Routine inspections by an outside party for things such as aerial lifts.

• PM scheduled as follows: ballfield equipment (Jan/Feb), aerial lifts (Feb), mowing equipment, trailers (March), snow equipment (Sept/Oct), trucks (Oct/Nov).

• Equipment assigned to one principal operator as much as possible. (This fosters a sense of accountability and ownership.)

• Provide resources to get the job done. (Includes tools, manuals, internet access, shop, networking opportunities, etc.)

• A good PM program makes it easier for staff to perform their jobs with good equipment and higher quality work can be performed. It presents a good image to the public and shows a responsible work force that takes pride in what they do. It also creates a better self-image and sense of worth for the employee, since they know that they are considered valuable enough to be trusted with the best equipment.

Kenny Nichols, Westerville (OH) City Schools

www.stma.org
John Mascaro’s Photo Quiz

>> Answer: from page 21

These brown squares on the turf in right field of AT&T Park in San Francisco are a result of a football game. That’s correct, once a year the right field area of this major league baseball stadium is transformed into an area for bleachers for the Emerald Bowl Football game. First the clay areas are removed and then the area is sodded. Next plywood is laid down to form a roadway in front of where the bleachers will be placed. Then squares of plywood are laid on the turf to allow the portable bleachers a firm surface area. The stands typically stay on the field for three to four weeks with construction and deconstruction. In addition to the Emerald Bowl, this stadium also endures the San Francisco Giants baseball games, music concerts, the Icer Air ski jump (Ski and Snowboard event with a 100 foot high ramp covered with 200 tons of man-made snow), AMA Supercross Series (Off-road Motorcycle Races) in which thousands of cubic yards of dirt is piled upon the turf as well as multiple other events. So in the grand scheme of things, these brown squares are interesting to look at but do not cause any real damage other than added compaction as compared to some of the other events at the stadium.

Thanks to Gregory Elliott, Sports Turf Manager at AT&T Park in San Francisco for allowing me to take these photos and sharing his story.

If you would like to submit a photograph for John Mascaro’s Photo Quiz please send it to John Mascaro, 1471 Capital Circle NW, Ste # 13, Tallahassee, FL 32303 or email to john@turf-tec.com. If your photograph is selected, you will receive full credit. All photos submitted will become property of SportsTurf magazine and the Sports Turf Managers Association.