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**Shattuck Inn continued from page 19**

underneath the bridges,” Robinson reveals. “The sections were fused together so they could expand and contract without problems. They will have to be drained in the winter. Snow for the ski trails will have to be trucked to some areas.”

By the following winter he had established the Penncross greensand tees and battled to seed six fairways with a 50/50 mix of Penncross and Pennneagle. “Even though we picked tons of rock out of the fairways, they grew back over the winter,” Robinson jokes. “The thought of picking rock out of 18 fairways every year was scary. Furthermore, it took the soil weeks to dry out after a rain and our mowing equipment was always threatened by rocks.”

Last spring, with just 12 months to go before opening, Silva, Pittman, and Robinson grew concerned about finishing the fairways. “Dave [Robinson] came up with the idea of putting a six- to eight-inch cap of sand on top of the existing rocky soil,” Silva says with relief. “After all, The Captains worked out fine and it was 90-percent sand. Sand would also help us out with drainage.”

The decision had to be made in time to truck the sand in before the end of winter. Fortunately, since the economy in New England was slow, Robinson was able to locate sand from a local pit at a good price. Without delay, 20,000 yards of sand was stockpiled on all 18 fairways. The crew returned in April to spread the sand after frost had left the ground.

As the ducks began to migrate through Jaffrey in May, Robinson was busy testing the irrigation system and seeding the fairways. “It was a wet spring and summer,” he points out. “I think the sand cap gave us an edge. We seeded the roughs with a bluegrass/ryegrass mix about the same time. The bentgrass came along very quickly. That was a big help when three fairways were washed out after 5-1/2 inches of rain fell in 48 hours in August. The sand made repairs easier and protected the wetlands from silt.”

The crew at Shattuck Inn spent the past summer and fall finishing the five miles of cart paths and roughly 71 bunkers. By September, the course was playable. The golf course’s official opening was set for this spring.

The course will play to over 6,600 yards and be operated on a daily fee basis. “Those who have seen it have said they would pay just to take a cart ride around the 18,” boasts Silva. “Mother Nature sure got the setting right!”

Robinson has begun to make the switch from a construction superintendent to grow-in and maintenance. “On one section of the 13th fairway, we planted seed treated with a growth enhancer,” he remarks. “There is a noticeable difference in development in that section. I’ve also noticed a difference in thatch in areas with heavy shade. Next spring, as we lower the greens to 3/16-inch and the tees to 1/2-inch, we’ll start using minors in our fertilizers. We’ll cut the fairways at 5/8-inch and the roughs at 1-1/2 inch. It’s nice not having to worry about Poa [annual bluegrass].”

The superintendent is always conscious of what he applies to the course. “We had test areas at The Captains which gave us an idea of the mobility of pesticides and fertilizers,” Robinson remarks. “Basically, they don’t migrate at all if you apply them correctly to dense turf. Still, I won’t take any chances near the wetlands with a few materials. My biggest concern is preventing snow mold.”

Robinson has been following a maintenance schedule similar to the one used at The Captains. “You have to stay on top of fertility, especially the first few years,” he states. “By then, the bent creates its own organic matter in the sand. I think we would have needed more chemicals and had higher equipment maintenance costs if we’d stuck with the existing soil in the fairways. The sand cap was a judgement call that’s already paying off.”

Pittman describes the new course as fair but unforgiving. “The views of Mount Manadnock are spectacular,” he boasts. “We removed perhaps a fourth of the trees on the property, but we opened up vistas that rival many in my experience with the Bureau of Land Management. In many respects, we have improved the area for wildlife. Foxes have built five dens in the fairway retaining walls. The diversity of other small mammals and birds has also increased.”

Shattuck Inn Golf Course apparently has satisfied the environmental restrictions placed on golf course design and maintenance today. The team of Pittman, Silva, and Robinson succeeded largely because of their combined experience in environmental impact, agronomy, and the history of golf course architecture. “If you seek to find golf holes rather than simply manufacture them, your end result will be compatible with nature,” Silva advises. “That’s the way golf originated, and that’s the way it should remain.”

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Golf & sportsTURF
Most teachers address their students from behind a lectern or in front of a blackboard. The 1991 Golf & sportsTURF Man of the Year prefers to deliver his lessons from a pitcher's mound with a rake in hand.

From this position, 31-year-old Murray Cook has had a significant impact on the improvement of minor league baseball and spring training facilities, as well as on relations between the United States and the Soviet Union. That's a tall order for someone so young, but it shows that a new generation of baseball groundskeepers is determined to make its mark in the world of sports.

Since the age of 13, Cook has been studying how to satisfy minor league players and coaches with the condition of the turf and dirt in stadiums. The fact that he was in charge of a professional sports field before he could drive a car in itself reveals some of the problems with consistency and investment in minor league ball. During the next 18 years he made great strides to correct the problem.

Cook has spent most of his career in the minor leagues, either as a groundskeeper, director of operations, or consultant. He is now superintendent of West Palm Beach (FL) Municipal Stadium, spring training site of both the Montreal Expos and the Atlanta Braves.

His ties with the minor leagues remain as strong as ever. In 1989, he traveled with the Eastern League All Stars to three cities in Russia on the first Diamond Diplomacy Tour. This past September he helped organize a seminar for the league in Harrisburg, PA, on baseball stadium operations. It was the first such seminar presented by any professional baseball league to educate general managers, groundskeepers, and municipal stadium employees regarding field standards.

Cook's success can be attributed to a list of things, beginning with the transition of minor league baseball from a hobby to a business. Timing is a big part of anyone's career. He happened to be involved in baseball at a time when owners began applying basic business principles in order to draw more fans to parks across America. The personable Cook took every opportunity to persuade management that field improvement is a factor in baseball's profitability.

To be persuasive a person has to have confidence, enjoy talking and listening to others, be flexible, and make a good impression. On top of that, he needs an excellent memory to capture names, opinions, and other valuable information. What is trivial to some may be vital to others.

You can't preach what you don't practice. Cook had to demonstrate the impact of better field conditions on team performance and attendance. He started by learning all he could to deliver what coaches and players wanted. Like other minor league groundskeepers, he worked with limited resources. So Cook came up with ways to pay for needed improvements.

"In single A ball you have to wear more than one hat," Cook reveals. "I used to sell advertising and other promotions in the off-season. Learning the income side of the game was a big help. It put groundskeeping into perspective for me. The more tickets we sold, the better chance I had at getting equipment and supplies for the field."

Cook learned that sales can come into play in many ways. Like other professional groundskeepers, he got calls from high schools, parks, and colleges regarding the condition of their ball fields. He started to market his turf and infield dirt skills to those who desperately needed them. He became an active consultant in the region teaching other groundskeepers how to sell needed improvements to managers of their sports facilities.

While he enjoyed both sales and groundskeeping, Cook discovered that teaching was in his blood. "I had two good teachers around me," Cook explains, "my mother and Morris Creggar, the person who taught me how to be a good groundskeeper as a kid. Both are taskmasters who stress the value of studying and working hard to achieve your goals. They made it fun to learn and demonstrated that it was also fun to teach."

"You have to do your homework," he remarks. "Read everything you can get your hands on. Go to field days and conferences. Call up other groundskeepers and visit their parks when you need answers. Let people know you're excited about your continued on page 24
job and consider yourself a professional! You have to be a little extroverted and focus on the positive things around you.”

As a teenager, Cook started to size up the situation in professional baseball. “Everyone starts at the bottom and has to earn their way up the ladder,” he states. “You start in single-A and try to make it to the big leagues. That’s true for players, coaches, and managers as well as for groundskeepers.”

Cook started with the single-A Salem Pirates of the Carolina League. At the age of 10 he was a bat boy. The following year he was hired to help clean the stands after games. After watching the grounds crew from the seats for two years, he made the switch to the field. When he wasn’t working on the diamond, he was shagging balls or throwing batting practice. By the age of 15 he was the head groundskeeper.

He continued to work for the Pirates while he studied horticulture at Virginia Western Community College. In 1980, he decided to pursue a degree in education at North Carolina Wesleyan College in Rocky Mount. He kept his hand in baseball by landing the head groundskeeper’s job for the Charlotte O’s, a double-A farm team for the Baltimore Orioles in the Southern League. “I didn’t have much free time, but I was doing what I liked most,” he recalls.

Following graduation, he left baseball to be a social worker for one year. “I stayed in touch with my buddies from the Carolina and Eastern Leagues,” Cook notes. “They tipped me off about the Salt Lake Gulls, the Seattle Mariners’ new triple-A team in Salt Lake City, UT. It didn’t take much to convince me to move to Utah. I missed baseball more than I thought I would.”

Unfortunately, the Gulls lasted only three seasons. Cook returned to Salem where he kept busy as a field consultant for the Pittsburgh Pirates and a number of teams in the Eastern and Carolina Leagues.

“The problem in the minors is just about all the stadiums are owned and operated by cities,” Cook points out. “They would take care of the stadium fields the same as their other park fields. Nobody had ever taught them how to build mounds, work the basepaths, or rake out lips. They didn’t understand the difference between maintaining a professional field and a park field.”

The National Association of Professional Baseball Leagues (NAPBL) employs two inspectors for more than 170 minor league stadiums in the U.S. and Canada, one person for each side of the Mississippi River. Each year they critique all stadiums in their region for the condition of the stands, lighting, concessions, and field. Problems are outlined on a report for the city and team to arrange improvements.

Despite this system of inspection, there are still disputes over who must pay to correct the deficiencies. The team typically leases the stadium from the city. If the lease does not clearly assign responsibility for improvements, disagreement between the city and the team can result in delays and substandard playing conditions.

Minor league players are paid by the Major League franchise and loaned to minor league farm clubs. Poor playing conditions not only can affect a team’s record, they can hamper player development. For this reason, the farm directors of each Major League club want the best possible playing conditions. The fact that field standards were an issue in the latest contract between NAPBL and Major League Baseball indicates that inconsistency of field standards is a problem in professional baseball.

Under the terms of the new contract, a minor league team can have its certification revoked by NAPBL if they don’t meet certain standards. That increases the pressure on farm teams to work out field improvement measures with city-owned facilities.

Cook has found himself in the middle of this controversy for the past five years. “I’m lucky to have been working for the Eastern League,” he remarks. “There has been a conscious effort by Charlie Eshbach, president of the Eastern League, and the presidents and owners of the league’s teams to upgrade stadium fields. They have been receptive to field renovation and training management and groundskeepers about construction and maintenance.”

Eshbach credits Cook with his league’s head start in field improvement. “We’ve talked about better field conditions for years,” he states. “Murray provided us with a workable vehicle to carry it out.”

Cook, on the other hand, points to the organizational expertise of Scott Carter, president of the Harrisburg Senators in Harrisburg, PA. Cook moved to the Senators, a double-A team in the Pirates’ organization, in 1988. “Scott represents an organized, business approach to baseball,” Cook claims. “He has assigned a high value to field conditions in relation to the success of professional baseball.”

The Senators are benefiting from Carter’s “new look” type of management. The former banker discovered the potential of minor league baseball when he researched various types of sports investments for a customer.

“In the early ’80s, two things were holding back minor league baseball,” Carter states. “Many teams were undermanaged because they were owned by hobbyists instead of businessmen. Secondly, many of the facilities were poor. Meanwhile, cities began to invest in facilities to supplement economic development activity. Some of these cities were in good markets for baseball.”

Carter evaluated 90 different minor league operations between 1984 and 1986. The Eastern League was attractive because it was older, more established, and had the lowest travel of all three double-A leagues. It also had two cities with great potential for double-A ball, Springfield, MA, and Harrisburg, PA. Stephen Reed, Harrisburg’s mayor, also was anxious to gain a franchise for his city.

One of the teams receptive to Carter’s idea was the Pittsburgh Pirates. He took a close look at a number of the Pirates’ farm teams, including Salem. “One thing I discovered is Major League teams look for good stadiums when they select farm teams,” he adds. “Salem had one of the best. Murray was the groundskeeper at the time. He had the unique ability to work with...
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Man Of The Year
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people, solve problems, and get the job
done. I was also trying to identify good
people. Murray stood out among all the
teams I visited.”

Another person Carter met during his
travels was Jerry Limeur, owner of the
Nashua (NH) Senators. “Jerry is one of the
world’s greatest baseball fans,” claims Car-
ter. “But he is also a professor of political
science at the University of Massachusetts
and his team was not drawing well in
Nashua. I showed him my research
and we discussed the idea of mov-
ing the team to Harrisburg. We
ended up striking a deal in 1986.”

Harrisburg was in the midst of
developing its waterfront on the
Susquehanna River. The city built
a new baseball stadium on an is-
land in the middle of the river
purely on speculation in 1986.
Luckily, the Senators fit right into
the city’s plan.

The new Harrisburg Senators
opened with great fanfare in the
following April. The playing sur-
face looked fine from the stands
and the fans were not upset by a
number of fielding errors during
the opening homestand. Every
team has the jitters early in the season. The
fans were still thrilled to have their own
professional baseball team.

The players, on the other hand, com-
plained of bad hops. The infield dirt
was also too hard and damp. The area between
home plate and the mound was wet and
slippery. Carter wanted better for the Sen-
ators’ organization. During the next
season, the two concentrated on ways to
improve conditions in professional base-
ball.

Carter, an experienced banker, wanted
documentation to track maintenance, in-
cluding a maintenance outline, schedule,
and check list. He wanted to develop a
clear-cut budget so that he could intelli-
gently negotiate maintenance costs with
the city. That year, the club successfully
renegotiated its lease with Harrisburg to
obtain greater control over playing con-
ditions.

Both energetic and creative, Carter and
Cook discussed ways to make the minor
leagues more businesslike and profes-
ional. Ever since the late ‘70s, when Cook
met Dr. David Chalmers, extension special-
ist at Virginia Polytechnic Institute in
Blacksburg, he had envisioned seminars for
baseball groundskeepers. This idea
began to take shape in Harrisburg.

“Murray was the first baseball
groundskeeper I’ve dealt with,” re-
veals Chalmers. “He was always
pushing to get information and to
train himself. He wanted to stan-
dardize field care so it could be
shared with other groundskeepers.
He is a stickler about technique,
consistency, and following a main-
tenance schedule.”

Turf was just part of the
groundskeeper’s responsibility. “I
was amazed to hear and see how
much detail goes into maintaining
the infield dirt,” adds Chalmers.
“He showed me that groundskeep-
ing is an art as much as a science.
Murray is a strong teacher and very profes-
sional.”

As Chalmers has discovered, baseball
clubs often want one thing and the city has
something else in mind. Minor league base-
ball needed someone to explain the differ-
ence, settle on standards, and monitor
conditions on a continuing basis. Cook
looked for every opportunity to explain the
problem to those that could help.

Baseball’s management had to give field
conditions higher priority so they could
negotiate effectively with city officials. It
worked in Harrisburg. Cook believed it
could work equally as well in all the
leagues. He found Carter and Eastern
League President Eshbach willing to listen.
However, before Cook could carry out
his seminar idea, an opportunity arose that
he could not pass up. In 1988, the city of
West Palm Beach, FL, and the county
agreed to jointly provide $500,000 a year
for the improvement and maintenance of its
stadium and spring training center. Munici-
pal Stadium is the only baseball complex
serving two Major League teams, the Mon-
treal Expos and the Atlanta Braves. The city
was looking for a head groundskeeper to
take over the task of renovating seven fields
Kevin McIlhale, former general manager of the Expos, had heard about Cook and his work in Salem from one of his scouts. He called Cook and urged him to contact Bob Burdett, the city’s stadium manager regarding the position. “When I went down to Florida to talk with Bob, I thought it was about a consultant type of arrangement,” said Cook. “They’d used consultants before and Scott [Carter] encouraged me to take on more consulting work.” After meeting with Burdett about the facility and ways to improve things, he decided to apply for the full-time superintendent’s position.

“I knew that Murray wouldn’t be in Harrisburg for long,” said Carter. “But I also knew he’d be there if I needed help again.” If fact, many owners were taking notice of the success of Harrisburg and the way it operated. Word spreads quickly in the tightly-knit minor league system.

In the past two years Cook has delivered the standards he set over the years. “We are elated about the condition of the fields,” remarks Bobby Cox, manager of the Braves. “Workouts are much better. Our players are not afraid to take a ground ball now.”

“The infield dirt is not as hard since he’s changed the mix,” adds Dave Dombrowski, vice president of the Expos. “It was like playing on concrete. The grass too is in much better shape. There aren’t so many bad hops on the field now. Players are in a much better frame of mind and are developing better fielding habits.”

“I’ve heard nothing but glowing reports,” states Hank Aaron, director of player development of the Braves. “The fields are in better shape this year than ever in the past 14 years.” Spike Owen, Expos shortstop, has gained confidence during spring training since Cook took over. “Before, spring training had been tough because of the condition of the fields.”

Even though West Palm Beach Stadium is busy year-round, Cook finds the time to provide assistance to others when asked. The Expos also use a four-field complex at a high school in Lantana, FL. Cook has helped upgrade those fields in his spare time. In the past two years he has also helped teams in the Eastern and Carolina Leagues.

His Eastern League contacts have rewarded Cook in a number of ways since he’s been at West Palm Beach. In 1989, Harrisburg owner Limeur organized a three-city exposition and tour of the U.S.S.R. for the Eastern League Allstars called the Diamond Diplomacy Tour. It was a good will tour to help introduce baseball to Russia before it be-

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Man Of The Year
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comes an Olympic sport this decade.

The American delegation included the
players, coaches, trainers, team doctor, and
a groundskeeper, Cook. A portable mound
shipped by Cook to Russia never made it
through customs, so Cook received the
honor of building the first pitcher’s mound
in that country. Eastern League President
Eshbach made the formal first pitch in the
series off Cook’s mound.

“The Russians were very interested in
details about groundskeeping,” reports
Cook. “I tried to explain through an inter-
preter how to set up a baseball field on
soccer fields in Moscow, Tallinn, and Kiev.
I think they will be a factor in Olympic
baseball by the next century.”

One of the pleasures of the trip for Cook
was getting to know Eshbach and describ-
ing his ideas for a groundskeeping seminar
for the Eastern League. On the plane ride
back to the States, Cook spelled out the
format for a mandatory clinic to be held at
Riverfront Stadium in Harrisburg. Eshbach
expanded the idea to include general man-
agers, municipal stadium personnel, and
team groundskeepers. After discussing the
idea with the league owners, Eshbach
sought approval from NAPBL President
Sal Artiaga. He not only approved the con-
cept, but agreed to participate in the first
one in Harrisburg in September 1990.

Cook received the
honor of building
the first pitcher’s
mound in
Russia.

All eight Eastern League teams were
represented in Harrisburg. Chalmers, along
with Don Waddington from Penn State,
covered turf management for the group.
Joe Mooney, groundskeeper of the Boston
Red Sox, and Cook demonstrated field
maintenance techniques and described
how field condition impacts players. Es-
hbach, Carter, and Chuck Lamar, the
Braves director of player/personnel, cov-
ered the business aspects of leasing, player
development, and promotions.

“I sincerely hope that the NAPBL will
encourage the other leagues to organize
this type of training,” states Eshbach. “The
new contract with the Major Leagues sets
a four-year deadline for establishing and
maintaining field standards. Holding semi-
nars like the one in Harrisburg is the place
to start. I’m proud the Eastern League has
led the way.”

“Better field conditions present an op-
portunity for hundreds of groundskeep-
ers,” claims Cook. “Major League
Expansion is going to increase the impor-
tance of the field quality in the farm system.
Teams that develop their players at good
facilities will have a competitive edge on the
field and their farm teams will have a lead
at the box office. As a groundskeeper, it
makes me feel good that we are finally
being recognized as an important part of
professional baseball.”

Cook looks forward to many more years
of teaching the art of groundskeeping as
baseball grows as a professional and Olym-
pic sport. He urges others to join him on
the mound with rake in hand. Golf & sports-
TURF salutes Murray Cook as its 1991 Man
of the Year.
JACKLIN DEVELOPS SEAL PROGRAM

Jacklin Seed Company of Post Falls, ID, has developed a new seal program to single out turfgrass varieties with superior genetic characteristics that diminish impact on the environment. The theme of the program is "Improving the world's environment." According to Doyle Jacklin, director of marketing, the company's Green Seal of Quality will mark each variety that meets both genetic standards and elevated seed analysis standards.

PALA MESA DOMINATES DEERE TOURNAMENT

For the second time in three years, a team from Pala Mesa Resort in Fallbrook, CA, took first place in the fourth annual John Deere Team Championship. The event was held at Mission Hills and Dunes Course in Palm Springs, CA.

The tournament is the only PGA-sanctioned competition that provides an opportunity for golf professionals and golf course superintendents to team up with other club officials in a national championship. It was inaugurated in 1987 to recognize those who make America's golf facilities successful.

The Pala Mesa Resort team of Dale Hahn, Chris Starkjohann, Danna Campbell, Paul Slavik, and Jim Davis, a John Deere golf and turf distributor, beat 36 other sectional teams in the two-day, 36-hole event. Nearly 900 teams competed in sectional tournaments through the year to determine the 37 finalists for the modified scramble event.

MILLER NAMED CLUB CAR PRESIDENT

A. Montague Miller has been promoted from senior vice president of administration to president of Club Car, Inc., based in Augusta, GA. He will report directly to George H. Inman, CEO and chairman of the board.

Miller holds a bachelor's degree in business administration and a doctorate of jurisprudence from the University of Georgia. He was admitted to the Georgia Bar in 1962 and practiced law as a partner in the firm of Dye, Miller, Tucker, and Everett in Augusta, GA.

In 1978, Miller began serving as general counsel to Club Car. He became corporate secretary in 1987, and was promoted to senior vice president of administration in 1990.
Keeping Fleet Cars
And Vehicles Up To Par

By John Allison

Of the factors that impact overall golf course profitability, which ones can be controlled? Although the answers may differ from course to course, depending on such variables as location, course layout, membership base, and length of playing season, most club managers will tell you that golf car rentals are among their highest source of daily revenue, second only to playing fees.

As a prime source of a course's revenue, the golf car fleet, as well as turf vehicles, should be regarded as tremendous assets. And, with a little care, the fleet won't become a potential money pit. In fact, with today's state-of-the-art, virtually maintenance-free golf cars and turf vehicles, it's now easier than ever to reap optimum daily profits and maximum performance from your fleet.

To the golf course manager, the real cost of fleet ownership is not restricted to the original terms in the lease or purchase agreements and the cost of everyday operating expenses. The real cost, or the real value, of any fleet is equated to its ability to maintain minimum downtime and maximize profits.

The first step in attaining optimum performance and reliability from your fleet is to develop a comprehensive maintenance schedule to keep accurate records of each individual car's use. Use the schedule to ensure equal use of all fleet cars by rotation. The most common pitfall is the "last car in, first car out" trap, which ultimately distributes the lion's share of work load on select cars.

Most course personnel are limited by the design of the fleet barn, which may have a less-than-nominal ingress/egress layout. Ideally, a front and back door design permits the first arrivals to be the first out the following day. Whatever solution works best for you, keep in mind that unequal up-time hours on select cars will eventually take their toll on overall fleet performance.

To monitor the ongoing maintenance costs on each vehicle, prepare a cost accounting maintenance chart that divides vehicle operations cost into two categories: Maintenance and Upkeep. Use the Maintenance category to log all expenses associated with daily operations, including the service time and cost of topping off the fuel tank, charging the battery, cleaning, and the routine replacement of minor parts—items and procedures needed to keep the car running on a day-to-day basis.

The Upkeep category, on the other hand, will be used to log-in the service time and costs of parts that contribute to vehicle longevity and long-term performance, like tire rotation, filter replacements, engine valve and steering mechanism adjustments, battery servicing, etc.

Often, as the daily rigors of maintenance are performed, vehicle upkeep is delayed or becomes relegated to the final item on a checklist. Don't underestimate the significance of a fleet's long-term upkeep schedule, as a single car down spells a three-way loss: lost revenue, expensive labor time, and the cost of replacing parts.

For gasoline cars, gas, oil, spark plugs, filters, battery fluid level, etc., are the usual items which must be attended to, added, or replaced to ensure day-to-day operation of a gas car fleet. If the fleet is coming out of

Disproportional use of select cars severely impacts the depth of charge and a battery's ability to maintain a charge.